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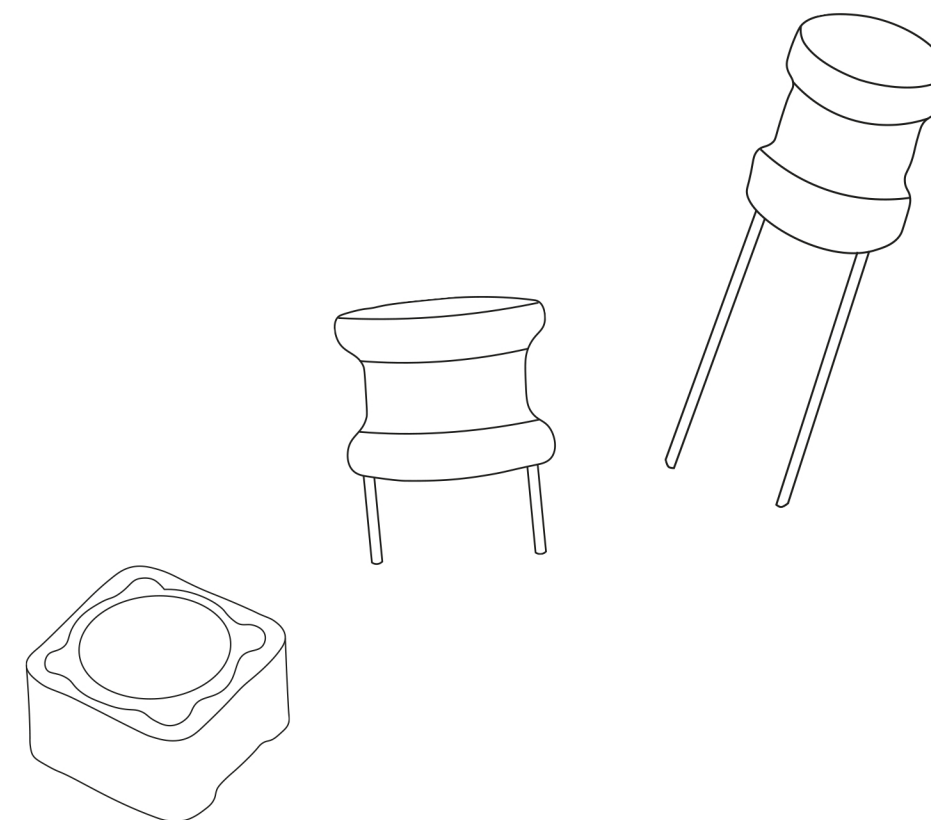
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INDUCTORS

PRODUCT CATALOG



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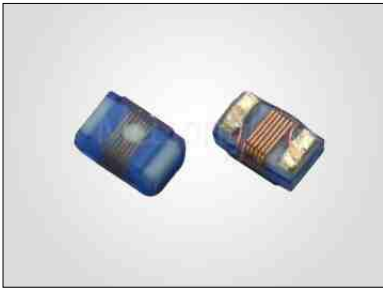
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Features

- Ceramic Core
- High frequency design
- Excellent Q values
- High reliability
- Excellent thermal stability

General Specifications

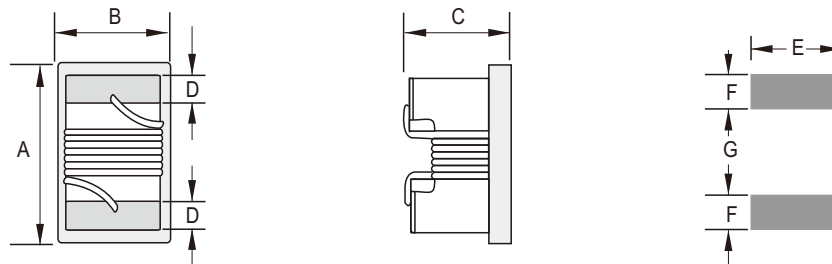
- Storage temp range: -40°C to +105°C
- Operating temp range: -40°C to +105°C

Applications

- Modems
- Mobile Radios
- Cordless Telephones
- Global Positioning Systems
- Telecommunications Systems



► Dimensions & Configurations [Unit: mm]



Type	A max	B max	C max	D	E	F	G
MSCC0402 [1005]	1.19	0.66	0.64	0.23	0.64	0.40	0.46
MSCC0603 [1608]	1.80	1.12	0.95	0.30	1.02	0.64	0.64
MSCC0805 [2012]	2.29	1.73	1.52	0.50	1.78	1.02	0.76
MSCC1008 [2520]	2.92	2.70	2.23	0.50	2.54	1.02	1.27
MSCC1210 [3225]	3.50	2.90	2.25	0.50	2.54	1.02	1.78

► Product Identification

MSCC **0402** - **1R0** **J**
 (1) (2) (3) (4)

- (1) Series Name
- (2) Product Dimensions (L*W Inch)
- (3) Inductance Value (1N0: 1.0nH / 10N: 10nH / R10: 100nH)
- (4) Inductance Tolerance

Code	B	C	S	D	F	G	H	J	K
Tolerance	±0.1nH	±0.2nH	±0.3nH	±0.5nH	±1%	±2%	±3%	±5%	±10%

► Electrical Characteristics For MSCC0402(1005) Series

Part Number	Inductance [nH]	L,Q Test Freq [MHz]	Q (Min)	SRF (Min) [GHz]	DCR (max) [Ω]	IDC(Max) [mA]
MSCC0402-1N0	1.0	250	16	12.7	0.045	1360
MSCC0402-1N2	1.2	250	12	12.9	0.09	740
MSCC0402-1N3	1.3	250	10	12.9	0.14	640
MSCC0402-1N8	1.8	250	20	12	0.07	1040
MSCC0402-1N9	1.9	250	20	11.3	0.07	1040
MSCC0402-2N0	2.0	250	23	11.1	0.07	1040
MSCC0402-2N2	2.2	250	22	10.8	0.07	960
MSCC0402-2N4	2.4	250	22	10.5	0.068	790
MSCC0402-2N7	2.7	250	16	10.4	0.120	640
MSCC0402-3N0	3.0	250	24	7	0.066	840
MSCC0402-3N3	3.3	250	24	7	0.066	840
MSCC0402-3N6	3.6	250	24	6.8	0.066	840
MSCC0402-3N9	3.9	250	24	6	0.066	840
MSCC0402-4N3	4.3	250	22	6	0.091	700
MSCC0402-4N7	4.7	250	20	4.77	0.13	640
MSCC0402-5N1	5.1	250	23	4.8	0.083	800
MSCC0402-5N6	5.6	250	25	4.8	0.083	760
MSCC0402-6N2	6.2	250	25	4.8	0.083	760
MSCC0402-6N6	6.6	250	24	4.8	0.080	680
MSCC0402-6N8	6.8	250	24	4.8	0.083	680
MSCC0402-7N3	7.3	250	25	4.8	0.1	680
MSCC0402-7N5	7.5	250	25	4.8	0.1	680
MSCC0402-8N2	8.2	250	25	4.4	0.1	680
MSCC0402-8N7	8.7	250	25	4.1	0.2	480
MSCC0402-9N0	9.0	250	25	4.16	0.1	680
MSCC0402-9N1	9.1	250	25	4.16	0.1	680
MSCC0402-9N5	9.5	250	24	4	0.2	480
MSCC0402-10N	10	250	24	3.9	0.2	480
MSCC0402-11N	11	250	26	3.68	0.12	640
MSCC0402-12N	12	250	26	3.6	0.12	640
MSCC0402-13N	13	250	24	3.45	0.21	444
MSCC0402-15N	15	250	26	3.28	0.17	560
MSCC0402-16N	16	250	25	3.1	0.22	560
MSCC0402-18N	18	250	25	3.1	0.23	420

► Electrical Characteristics For MSCC0402(1005) Series

Part Number	Inductance [nH]	L,Q Test Freq [MHz]	Q (Min)	SRF (Min) [GHz]	DCR (max) [Ω]	IDC(Max) [mA]
MSCC0402-19N	19	250	26	3.04	0.2	480
MSCC0402-20N	20	250	26	3	0.25	420
MSCC0402-22N	22	250	25	2.8	0.3	400
MSCC0402-23N	23	250	25	2.72	0.3	400
MSCC0402-24N	24	250	25	2.7	0.3	400
MSCC0402-27N	27	250	25	2.48	0.3	400
MSCC0402-30N	30	250	25	2.35	0.35	400
MSCC0402-33N	33	250	24	2.35	0.4	400
MSCC0402-36N	36	250	25	2.32	0.44	320
MSCC0402-39N	39	250	25	2.1	0.55	200
MSCC0402-40N	40	250	24	2.24	0.65	320
MSCC0402-43N	43	250	25	2.03	0.81	100
MSCC0402-47N	47	250	25	2.1	0.83	150
MSCC0402-51N	51	250	25	1.75	0.82	100
MSCC0402-56N	56	250	25	1.76	0.97	100
MSCC0402-58N	58	250	25	1.76	0.97	100
MSCC0402-62N	62	250	25	1.62	1.12	100
MSCC0402-68N	68	250	25	1.62	1.55	100
MSCC0402-72N	72	250	25	1.26	1.55	50
MSCC0402-75N	75	250	25	1.26	1.55	50
MSCC0402-82N	82	250	25	1.26	1.55	50
MSCC0402-91N	91	250	24	1.16	2	30
MSCC0402-R10	100	250	24	1.16	2	30
MSCC0402-R12	120	250	24	1.1	2.66	50
MSCC0402-R15	150	250	24	1	3.5	30

► Electrical Characteristics For MSCC0603(1608) Series

Part Number	Inductance [nH]	L,Q Test Freq [MHz]	Q (Min)	SRF (Min) [MHz]	DCR (max) [Ω]	IDC(Max) [mA]
MSCC0603-1N5	1.5	250	24	12500	0.03	700
MSCC0603-1N6	1.6	250	24	12500	0.03	700
MSCC0603-1N8	1.8	250	16	12500	0.045	700
MSCC0603-2N0	2.0	250	12	12500	0.25	100
MSCC0603-2N2	2.2	100	12	12500	0.25	100
MSCC0603-2N7	2.7	250	22	5900	0.045	700
MSCC0603-3N3	3.3	250	22	5900	0.045	700
MSCC0603-3N6	3.6	250	22	5900	0.063	700
MSCC0603-3N9	3.9	250	22	6900	0.08	700
MSCC0603-4N3	4.3	250	22	5900	0.063	700
MSCC0603-4N7	4.7	250	20	5800	0.116	700
MSCC0603-5N1	5.1	250	20	5700	0.14	700
MSCC0603-5N6	5.6	250	26	4760	0.075	700
MSCC0603-6N2	6.2	250	20	5700	0.14	700
MSCC0603-6N3	6.3	250	20	5700	0.14	700
MSCC0603-6N8	6.8	250	27	5800	0.11	700
MSCC0603-7N5	7.5	250	28	4800	0.106	700
MSCC0603-8N0	8.0	250	28	4700	0.109	700
MSCC0603-8N2	8.2	250	30	4200	0.115	700
MSCC0603-8N7	8.7	250	28	4600	0.109	700
MSCC0603-9N1	9.1	250	28	5400	0.125	700
MSCC0603-9N5	9.5	250	28	5400	0.125	700
MSCC0603-10N	10	250	31	4800	0.13	700
MSCC0603-11N	11	250	30	4000	0.13	700
MSCC0603-12N	12	250	35	4000	0.13	700
MSCC0603-13N	13	250	35	4000	0.13	700
MSCC0603-15N	15	250	35	4000	0.17	700
MSCC0603-16N	16	250	34	3300	0.17	700
MSCC0603-18N	18	250	35	3100	0.17	700
MSCC0603-20N	20	250	36	3000	0.18	700
MSCC0603-22N	22	250	38	3000	0.19	700
MSCC0603-23N	23	250	38	3000	0.19	700
MSCC0603-24N	24	250	36	2650	0.135	700
MSCC0603-27N	27	250	40	2800	0.22	600

► Electrical Characteristics For MSCC0603(1608) Series

Part Number	Inductance [nH]	L,Q Test Freq [MHz]	Q (Min)	SRF (Min) [MHz]	DCR (max) [Ω]	IDC(Max) [mA]
MSCC0603-30N	30	37	250	2250	0.22	600
MSCC0603-33N	33	40	250	2300	0.22	600
MSCC0603-36N	36	37	250	2080	0.25	600
MSCC0603-39N	39	40	250	2200	0.25	600
MSCC0603-43N	43	38	250	2000	0.28	600
MSCC0603-47N	47	38	200	2000	0.28	600
MSCC0603-51N	51	35	200	1900	0.27	600
MSCC0603-56N	56	38	200	1900	0.31	600
MSCC0603-60N	60	37	200	1800	0.33	600
MSCC0603-62N	62	37	200	1800	0.33	600
MSCC0603-68N	68	37	200	1700	0.34	600
MSCC0603-72N	72	34	150	1700	0.49	400
MSCC0603-75N	75	28	150	1700	0.52	400
MSCC0603-82N	82	34	150	1700	0.54	400
MSCC0603-85N	85	34	150	1700	0.58	400
MSCC0603-91N	91	28	150	1600	0.58	400
MSCC0603-R10	100	34	150	1400	0.58	400
MSCC0603-R11	110	32	150	1350	0.61	300
MSCC0603-R12	120	32	150	1300	0.65	300
MSCC0603-R13	130	32	150	1150	0.92	290
MSCC0603-R15	150	28	150	990	0.92	280
MSCC0603-R16	160	28	150	990	1.25	280
MSCC0603-R18	180	25	100	990	1.25	240
MSCC0603-R20	200	25	100	900	1.98	200
MSCC0603-R215	215	25	100	900	2.10	200
MSCC0603-R22	220	25	100	900	2.10	200
MSCC0603-R24	240	25	100	900	2.20	200
MSCC0603-R25	250	25	100	882	2.55	120
MSCC0603-R27	270	26	100	830	2.80	170
MSCC0603-R29	290	25	100	800	3.20	100
MSCC0603-R30	300	25	100	790	3.89	100
MSCC0603-R33	330	25	100	790	3.89	100
MSCC0603-R39	390	25	100	780	4.35	100
MSCC0603-R47	470	25	100	700	4.50	100

► Electrical Characteristics For MSCC0805(2012) Series

Part Number	Inductance [nH]	Test Freq [MHz]	Q (Min)	SRF (Min) [MHz]	DCR (max) [Ω]	IDC(Max) [mA]
MSCC0805-2N2	2.2	250	50@1GHz	7900	0.06	800
MSCC0805-2N7	2.7	250	50@1GHz	7900	0.06	800
MSCC0805-2N8	2.7	250	50@1GHz	7900	0.06	800
MSCC0805-2N9	2.9	250	50@1GHz	7900	0.06	800
MSCC0805-3N0	3.0	250	50@1GHz	7900	0.06	800
MSCC0805-3N3	3.3	250	40@1.5GHz	7900	0.08	600
MSCC0805-3N6	3.6	250	20@1GHz	7900	0.10	200
MSCC0805-3N9	3.9	250	20@1GHz	7900	0.11	150
MSCC0805-4N7	4.7	250	50@1GHz	6200	0.08	600
MSCC0805-5N1	5.1	250	50@1GHz	6200	0.08	600
MSCC0805-5N6	5.6	250	65@1GHz	5900	0.08	600
MSCC0805-6N2	6.2	250	65@1GHz	5900	0.08	600
MSCC0805-6N8	6.8	250	50@1GHz	5600	0.11	600
MSCC0805-7N5	7.5	250	50@1GHz	4800	0.14	600
MSCC0805-8N2	8.2	250	50@1GHz	4400	0.12	600
MSCC0805-9N1	9.1	250	60@500MHz	4300	0.10	600
MSCC0805-10N	10	250	60@500MHz	4300	0.10	600
MSCC0805-12N	12	250	50@500MHz	4000	0.15	600
MSCC0805-15N	15	250	50@500MHz	3200	0.17	600
MSCC0805-16N	16	250	50@500MHz	3200	0.17	600
MSCC0805-18N	18	250	50@500MHz	3100	0.20	600
MSCC0805-20N	20	250	55@500MHz	2600	0.22	500
MSCC0805-22N	22	250	55@500MHz	2600	0.22	500
MSCC0805-23N	23	250	50@500MHz	2400	0.22	500
MSCC0805-24N	24	250	50@500MHz	2400	0.22	500
MSCC0805-25N	25	250	50@500MHz	2450	0.22	500
MSCC0805-27N	27	250	55@500MHz	2580	0.25	500
MSCC0805-30N	30	250	55@500MHz	2400	0.25	500
MSCC0805-33N	33	250	60@500MHz	2150	0.27	500
MSCC0805-36N	36	250	55@500MHz	1900	0.27	500
MSCC0805-39N	39	250	60@500MHz	1850	0.29	500
MSCC0805-43N	43	200	60@500MHz	1800	0.34	500
MSCC0805-47N	47	200	60@500MHz	1700	0.31	500
MSCC0805-50N	50	200	60@500MHz	1650	0.34	500
MSCC0805-56N	56	200	60@500MHz	1600	0.34	500
MSCC0805-62N	62	200	60@500MHz	1450	0.36	500
MSCC0805-64N	64	200	60@500MHz	1500	0.38	500
MSCC0805-66N	66	200	60@500MHz	1500	0.38	500
MSCC0805-68N	68	200	60@500MHz	1500	0.38	500
MSCC0805-75N	75	150	60@500MHz	1400	0.4	450
MSCC0805-78N	78	150	60@500MHz	1400	0.4	450

► Electrical Characteristics For MSCC0805(2012) Series

Part Number	Inductance [nH]	Test Freq [MHz]	Q (Min)	SRF (Min) [MHz]	DCR (max) [Ω]	IDC(Max) [mA]
MSCC0805-82N	82	150	65@500MHz	1330	0.42	400
MSCC0805-91N	91	150	65@500MHz	1330	0.48	400
MSCC0805-92N	92	150	65@500MHz	1330	0.48	400
MSCC0805-R10	100	150	65@500MHz	1250	0.46	400
MSCC0805-R11	110	150	50@250MHz	1100	0.48	400
MSCC0805-R12	120	150	50@250MHz	1100	0.51	400
MSCC0805-R14	140	100	50@250MHz	920	0.56	400
MSCC0805-R15	150	100	50@250MHz	920	0.56	400
MSCC0805-R16	160	100	50@250MHz	920	0.6	400
MSCC0805-R18	180	100	50@250MHz	920	0.64	400
MSCC0805-R20	200	100	50@250MHz	860	0.68	400
MSCC0805-R22	220	100	50@250MHz	820	0.7	400
MSCC0805-R24	240	100	44@250MHz	770	1	350
MSCC0805-R25	250	100	45@250MHz	750	1.2	350
MSCC0805-R27	270	100	48@250MHz	730	1	350
MSCC0805-R28	280	100	48@250MHz	550	1.35	350
MSCC0805-R29	290	150	48@250MHz	450	1.4	310
MSCC0805-R30	300	150	48@250MHz	450	1.4	310
MSCC0805-R33	330	100	48@250MHz	650	1.4	310
MSCC0805-R36	360	100	48@250MHz	630	1.45	300
MSCC0805-R39	390	100	48@250MHz	600	1.5	290
MSCC0805-R42	420	50	33@100MHz	425	1.7	250
MSCC0805-R43	430	50	33@100MHz	425	1.7	250
MSCC0805-R47	470	50	33@100MHz	375	1.76	250
MSCC0805-R56	560	25	23@50MHz	330	1.9	230
MSCC0805-R62	620	25	23@50MHz	320	2.2	210
MSCC0805-R68	680	25	23@50MHz	310	2.2	190
MSCC0805-R75	750	25	23@50MHz	310	2.3	180
MSCC0805-R82	820	25	23@50MHz	310	2.35	180
MSCC0805-R88	880	25	23@50MHz	310	2.35	180
MSCC0805-R91	910	25	22@50MHz	250	2.45	170
MSCC0805-1R0	1000	25	20@50MHz	220	2.5	170
MSCC0805-1R2	1200	25	20@25MHz	180	2.9	150
MSCC0805-1R5	1500	25	20@25MHz	160	3.3	150
MSCC0805-1R6	1600	25	20@25MHz	140	3.4	150
MSCC0805-1R8	1800	25	20@25MHz	130	3.5	120
MSCC0805-2R2	2200	25	20@25MHz	100	4.5	120
MSCC0805-2R7	2700	25	18@25MHz	80	4.8	100
MSCC0805-3R0	3000	25	18@25MHz	60	5	60
MSCC0805-3R3	3300	25	18@25MHz	50	6.8	50
MSCC0805-4R7	4700	25	18@25MHz	40	7	30

► Electrical Characteristics For MSCC1008(2520) Series

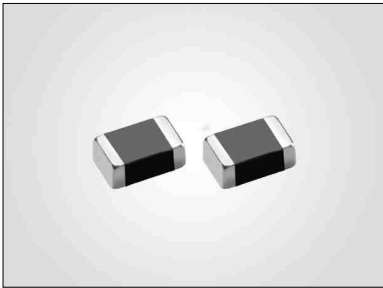
Part Number	Inductance [nH]	Test Freq [MHz]	Q (Min)	SRF (Min) [MHz]	DCR (max) [Ω]	IDC(Max) [mA]
MSCC1008-3N9	3.9	50	50@500MHz	4100	0.08	1000
MSCC1008-4N7	4.7	50	50@500MHz	4100	0.08	1000
MSCC1008-5N6	5.6	50	30@500MHz	4100	0.20	650
MSCC1008-6N2	6.2	50	20@500MHz	4100	0.20	400
MSCC1008-10N	10	50	50@500MHz	4100	0.08	1000
MSCC1008-12N	12	50	50@500MHz	3300	0.09	1000
MSCC1008-15N	15	50	50@500MHz	2500	0.10	1000
MSCC1008-18N	18	50	50@350MHz	2500	0.11	1000
MSCC1008-22N	22	50	55@350MHz	2400	0.12	1000
MSCC1008-24N	24	50	55@350MHz	1600	0.13	1000
MSCC1008-27N	27	50	55@350MHz	1600	0.13	1000
MSCC1008-33N	33	50	60@350MHz	1600	0.14	1000
MSCC1008-36N	36	50	60@350MHz	1500	0.15	1000
MSCC1008-39N	39	50	60@350MHz	1500	0.15	1000
MSCC1008-47N	47	50	65@350MHz	1500	0.16	1000
MSCC1008-51N	51	50	65@350MHz	1300	0.18	1000
MSCC1008-54N	54	50	65@350MHz	1300	0.18	1000
MSCC1008-56N	56	50	65@350MHz	1300	0.18	1000
MSCC1008-65N	65	50	65@350MHz	1300	0.2	1000
MSCC1008-68N	68	50	65@350MHz	1300	0.2	1000
MSCC1008-75N	75	50	60@350MHz	1000	0.22	1000
MSCC1008-82N	82	50	60@350MHz	1000	0.22	1000
MSCC1008-R10	100	25	60@350MHz	1000	0.56	650
MSCC1008-R11	110	25	60@350MHz	950	0.63	650
MSCC1008-R12	120	25	60@350MHz	950	0.63	650
MSCC1008-R15	150	25	45@100MHz	850	0.7	580
MSCC1008-R18	180	25	45@100MHz	750	0.77	620
MSCC1008-R20	200	25	45@100MHz	700	0.84	500
MSCC1008-R21	210	25	45@100MHz	700	0.84	500
MSCC1008-R22	220	25	45@100MHz	700	0.84	500
MSCC1008-R235	235	25	45@100MHz	700	0.84	500
MSCC1008-R24	240	25	45@100MHz	700	0.84	500
MSCC1008-R26	260	25	45@100MHz	600	0.91	500
MSCC1008-R27	270	25	45@100MHz	600	0.91	500

► Electrical Characteristics For MSCC1008(2520) Series

Part Number	Inductance [nH]	Test Freq [MHz]	Q (Min)	SRF (Min) [MHz]	DCR (max) [Ω]	IDC(Max) [mA]
MSCC1008-R29	290	25	45@100MHz	570	1.05	450
MSCC1008-R30	300	25	45@100MHz	570	1.05	450
MSCC1008-R33	330	25	45@100MHz	570	1.05	450
MSCC1008-R35	350	25	45@100MHz	500	1.12	470
MSCC1008-R36	360	25	45@100MHz	500	1.12	470
MSCC1008-R39	390	25	45@100MHz	500	1.12	470
MSCC1008-R43	430	25	45@100MHz	450	1.19	470
MSCC1008-R47	470	25	45@100MHz	450	1.19	470
MSCC1008-R51	510	25	45@100MHz	415	1.33	400
MSCC1008-R54	540	25	45@100MHz	415	1.33	400
MSCC1008-R56	560	25	45@100MHz	415	1.33	400
MSCC1008-R62	620	25	45@100MHz	375	1.4	300
MSCC1008-R64	640	25	45@100MHz	375	1.4	300
MSCC1008-R66	660	25	45@100MHz	375	1.47	400
MSCC1008-R68	680	25	45@100MHz	375	1.47	400
MSCC1008-R75	750	25	45@100MHz	360	1.54	360
MSCC1008-R82	820	25	45@100MHz	350	1.61	400
MSCC1008-R88	880	25	35@50MHz	320	1.68	380
MSCC1008-R91	910	25	35@50MHz	320	1.68	380
MSCC1008-1R0	1000	25	35@50MHz	290	1.75	370
MSCC1008-1R2	1200	7.9	35@50MHz	250	2	310
MSCC1008-1R5	1500	7.9	28@50MHz	200	2.3	330
MSCC1008-1R6	1600	7.9	28@50MHz	200	2.3	330
MSCC1008-1R8	1800	7.9	28@50MHz	160	2.6	300
MSCC1008-2R0	2000	7.9	28@50MHz	160	2.8	280
MSCC1008-2R2	2200	7.9	28@50MHz	160	2.8	280
MSCC1008-2R7	2700	7.9	22@25MHz	140	3.2	290
MSCC1008-3R3	3300	7.9	22@25MHz	110	3.4	290
MSCC1008-3R9	3900	7.9	20@25MHz	100	3.6	260
MSCC1008-4R7	4700	7.9	20@7.9MHz	60	4	260
MSCC1008-5R6	5600	7.9	16@7.9MHz	20	5.7	240
MSCC1008-6R8	6800	7.9	18@7.9MHz	40	7.7	200
MSCC1008-8R2	8200	7.9	18@7.9MHz	25	10.7	170
MSCC1008-100	10000	7.9	18@7.9MHz	25	12.7	100

► Electrical Characteristics For MSCC1210(3225) Series

Part Number	Inductance [nH]	Test Freq [MHz]	Q (Min)	SRF (Min) [MHz]	DCR (max) [Ω]	IDC(Max) [mA]
MSCC1210-12N	12	100	40@300MHz	3200	0.08	1000
MSCC1210-15N	15	100	40@300MHz	3200	0.20	1000
MSCC1210-33N	33	100	55@300MHz	1800	0.11	1000
MSCC1210-56N	56	100	55@300MHz	1450	0.14	1000
MSCC1210-R10	100	100	55@300MHz	900	0.20	850
MSCC1210-R12	120	100	60@300MHz	800	0.25	800
MSCC1210-R15	150	100	60@300MHz	700	0.30	750
MSCC1210-R18	180	50	60@300MHz	650	0.30	700
MSCC1210-R20	200	50	60@300MHz	650	0.40	770
MSCC1210-R24	240	50	40@300MHz	580	0.40	630
MSCC1210-R27	270	50	40@300MHz	580	0.40	630
MSCC1210-R33	330	50	45@150MHz	580	0.58	590
MSCC1210-R36	360	50	45@150MHz	510	0.58	530
MSCC1210-R39	390	50	45@150MHz	510	0.58	530
MSCC1210-R47	470	50	45@150MHz	480	1.00	490
MSCC1210-R68	680	25	45@150MHz	400	1.20	430
MSCC1210-1R0	1000	25	45@150MHz	340	1.85	320
MSCC1210-1R5	1500	7.9	20@50MHz	160	2.70	310
MSCC1210-1R8	1800	7.9	30@50MHz	160	3.50	310
MSCC1210-2R2	2200	7.9	25@50MHz	130	2.41	310
MSCC1210-2R7	2700	7.9	25@50MHz	110	3.50	300
MSCC1210-3R3	3300	7.9	20@25MHz	60	4.00	290
MSCC1210-4R7	4700	7.9	20@25MHz	60	5.00	280
MSCC1210-5R6	5600	7.9	15@25MHz	50	6.00	250
MSCC1210-6R8	6800	7.9	15@7.9MHz	40	9.00	230
MSCC1210-7R5	7500	7.9	20@7.9MHz	50	9.50	170
MSCC1210-8R2	8200	7.9	20@7.9MHz	50	9.50	170
MSCC1210-100	10000	7.9	15@7.9MHz	30	10.0	150



Features

- Monolithic inorganic material construction
- Closed magnetic circuit avoids crosstalk
- Suitable for flow and eflow soldering.
- High reliability

General Specifications

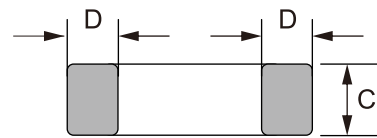
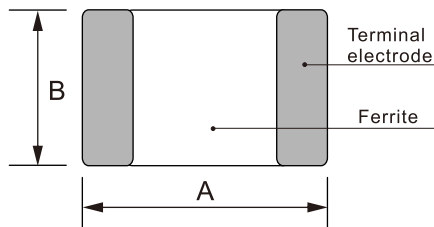
- Operating temp range: -55°C to +125°C
- Storage temp range: -40°C to +85°C

Applications

- Global Positioning Systems
- Network Systems
- Computer Products
- Mobil Radios
- Cordless Telephones



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D
MC1608(0603)	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
MC2012(0805)	2.0(+0.3-0.1)	1.25±0.2	0.85±0.2 / 1.25±0.2	0.5±0.3
MC3216(1206)	3.2±0.2	1.6±0.2	0.85±0.2 / 1.1±0.2	0.5±0.3
MC3225(1210)	3.2±0.2	2.5±0.2	1.3±0.3	0.8±0.2

► Electrical Characteristics For MC1608 Series

Part Number	Inductance [uH]	Q (min)	Test Freq L,Q [MHz]	SRF(min) [MHz]	DCR(max) [Ω]	IDC(max) [mA]	Thickness [mm]
MC1608-47NM	0.047±20%	10	50	260	0.30	50	0.8±0.15
MC1608-68NM	0.068±20%	10	50	250	0.30	50	0.8±0.15
MC1608-82NM	0.082±20%	10	50	245	0.30	50	0.8±0.15
MC1608-R10K	0.10±10%	15	25	240	0.50	50	0.8±0.15
MC1608-R12K	0.12±10%	15	25	205	0.50	50	0.8±0.15
MC1608-R15K	0.15±10%	15	25	180	0.60	50	0.8±0.15
MC1608-R18K	0.18±10%	15	25	165	0.60	50	0.8±0.15
MC1608-R22K	0.22±10%	15	25	150	0.80	50	0.8±0.15
MC1608-R27K	0.27±10%	15	25	136	0.80	50	0.8±0.15
MC1608-R33K	0.33±10%	15	25	125	0.85	35	0.8±0.15
MC1608-R39K	0.39±10%	15	25	110	1.00	35	0.8±0.15
MC1608-R47K	0.47±10%	15	25	105	1.35	35	0.8±0.15
MC1608-R56K	0.56±10%	15	25	95	1.55	35	0.8±0.15
MC1608-R68K	0.68±10%	15	25	90	1.70	35	0.8±0.15
MC1608-R82K	0.82±10%	15	25	85	2.10	35	0.8±0.15
MC1608-1R0K	1.0±10%	35	10	75	0.60	25	0.8±0.15
MC1608-1R2K	1.2±10%	35	10	65	0.80	25	0.8±0.15
MC1608-1R5K	1.5±10%	35	10	60	0.80	25	0.8±0.15
MC1608-1R8K	1.8±10%	35	10	55	0.95	25	0.8±0.15
MC1608-2R2K	2.2±10%	35	10	50	1.15	15	0.8±0.15
MC1608-2R7K	2.7±10%	35	10	45	1.35	15	0.8±0.15
MC1608-3R3K	3.3±10%	35	10	40	1.55	15	0.8±0.15
MC1608-3R9K	3.9±10%	35	10	35	1.70	15	0.8±0.15
MC1608-4R7K	4.7±10%	35	10	33	2.10	15	0.8±0.15
MC1608-5R6K	5.6±10%	35	4	22	1.55	5	0.8±0.15
MC1608-6R8K	6.8±10%	35	4	20	1.70	5	0.8±0.15
MC1608-8R2K	8.2±10%	35	4	18	2.10	5	0.8±0.15
MC1608-100K	10±10%	30	2	17	1.85	3	0.8±0.15
MC1608-120K	12±10%	30	2	15	2.10	3	0.8±0.15
MC1608-150K	15±10%	20	1	14	1.70	1	0.8±0.15

► Electrical Characteristics For MC2012 Series

Part Number	Inductance [uH]	Q (min)	Test Freq L,Q [MHz]	SRF(min) [MHz]	DCR(max) [Ω]	IDC(max) [mA]	Thickness [mm]
MC2012-47NM	0.047±20%	15	50	320	0.20	300	0.85±0.2
MC2012-68NM	0.068±20%	15	50	280	0.20	300	0.85±0.2
MC2012-82NM	0.082±20%	15	50	255	0.20	300	0.85±0.2
MC2012-R10K	0.10±10%	20	25	235	0.30	250	0.85±0.2
MC2012-R12K	0.12±10%	20	25	220	0.30	250	0.85±0.2
MC2012-R15K	0.15±10%	20	25	200	0.40	250	0.85±0.2
MC2012-R18K	0.18±10%	20	25	185	0.40	250	0.85±0.2
MC2012-R22K	0.22±10%	20	25	170	0.50	250	0.85±0.2
MC2012-R27K	0.27±10%	20	25	150	0.50	250	0.85±0.2
MC2012-R33K	0.33±10%	20	25	145	0.55	250	0.85±0.2
MC2012-R39K	0.39±10%	25	25	135	0.65	200	0.85±0.2
MC2012-R47K	0.47±10%	25	25	125	0.65	200	0.85±0.2
MC2012-R56K	0.56±10%	25	25	115	0.75	150	0.85±0.2
MC2012-R68K	0.68±10%	25	25	105	0.80	150	0.85±0.2
MC2012-R82K	0.82±10%	25	25	100	1.00	150	0.85±0.2
MC2012-1R0K	1.0±10%	45	10	75	0.40	50	0.85±0.2
MC2012-1R2K	1.2±10%	45	10	65	0.50	50	0.85±0.2
MC2012-1R5K	1.5±10%	45	10	60	0.50	50	0.85±0.2
MC2012-1R8K	1.8±10%	45	10	55	0.60	50	0.85±0.2
MC2012-2R2K	2.2±10%	45	10	50	0.65	30	0.85±0.2
MC2012-2R7K	2.7±10%	45	10	45	0.75	30	1.25±0.2
MC2012-3R3K	3.3±10%	45	10	41	0.80	30	1.25±0.2
MC2012-3R9K	3.9±10%	45	10	38	0.90	30	1.25±0.2
MC2012-4R7K	4.7±10%	45	10	35	1.00	30	1.25±0.2
MC2012-5R6K	5.6±10%	50	4	32	0.90	15	1.25±0.2
MC2012-6R8K	6.8±10%	50	4	29	1.00	15	1.25±0.2
MC2012-8R2K	8.2±10%	50	4	26	1.10	15	1.25±0.2
MC2012-100K	10±10%	50	2	24	1.15	15	1.25±0.2
MC2012-120K	12±10%	50	2	22	1.25	15	1.25±0.2
MC2012-150K	15±10%	30	1	19	0.80	5	1.25±0.2
MC2012-180K	18±10%	30	1	18	0.90	5	1.25±0.2
MC2012-220K	22±10%	30	1	16	1.10	5	1.25±0.2
MC2012-270K	27±10%	30	1	14	1.15	5	1.25±0.2
MC2012-330K	33±10%	30	1	13	1.25	5	1.25±0.2
MC2012-390K	39±10%	35	1	8	2.90	4	1.25±0.2

► Electrical Characteristics For MC3216 Series

Part Number	Inductance [uH]	Q (min)	Test Freq L,Q [MHz]	SRF(min) [MHz]	DCR(max) [Ω]	IDC(max) [mA]	Thickness [mm]
MC3216-47NM	0.047±20%	20	50	320	0.15	300	1.1±0.3
MC3216-68NM	0.068±20%	20	50	280	0.25	300	1.1±0.3
MC3216-82NM	0.082±20%	20	50	255	0.25	300	1.1±0.3
MC3216-R10K	0.10±10%	20	25	235	0.25	250	1.1±0.3
MC3216-R12K	0.12±10%	20	25	220	0.30	250	1.1±0.3
MC3216-R15K	0.15±10%	20	25	200	0.30	250	1.1±0.3
MC3216-R18K	0.18±10%	20	25	185	0.40	250	1.1±0.3
MC3216-R22K	0.22±10%	20	25	170	0.40	250	1.1±0.3
MC3216-R27K	0.27±10%	20	25	150	0.50	250	1.1±0.3
MC3216-R33K	0.33±10%	20	25	145	0.60	250	1.1±0.3
MC3216-R39K	0.39±10%	25	25	135	0.50	250	1.1±0.3
MC3216-R47K	0.47±10%	25	25	125	0.60	200	1.1±0.3
MC3216-R56K	0.56±10%	25	25	115	0.70	200	1.1±0.3
MC3216-R68K	0.68±10%	25	25	105	0.80	150	1.1±0.3
MC3216-R82K	0.82±10%	25	25	100	0.90	150	1.1±0.3
MC3216-1R0K	1.0±10%	45	10	75	0.40	100	1.1±0.3
MC3216-1R2K	1.2±10%	45	10	65	0.50	100	1.1±0.3
MC3216-1R5K	1.5±10%	45	10	60	0.50	50	1.1±0.3
MC3216-1R8K	1.8±10%	45	10	55	0.50	50	1.1±0.3
MC3216-2R2K	2.2±10%	45	10	50	0.60	50	1.1±0.3
MC3216-2R7K	2.7±10%	45	10	45	0.60	50	1.1±0.3
MC3216-3R3K	3.3±10%	45	10	41	0.70	50	1.1±0.3
MC3216-3R9K	3.9±10%	45	10	38	0.80	50	1.1±0.3
MC3216-4R7K	4.7±10%	45	10	35	0.90	50	1.1±0.3
MC3216-5R6K	5.6±10%	50	4	32	0.70	25	1.1±0.3
MC3216-6R8K	6.8±10%	50	4	29	0.80	25	1.1±0.3
MC3216-8R2K	8.2±10%	50	4	26	0.90	25	1.1±0.3
MC3216-100K	10±10%	50	2	24	1.00	25	1.1±0.3
MC3216-120K	12±10%	50	2	22	1.05	15	1.1±0.3
MC3216-150K	15±10%	35	1	19	0.70	5	1.1±0.3
MC3216-180K	18±10%	35	1	18	0.70	5	1.1±0.3
MC3216-220K	22±10%	35	1	16	0.90	5	1.1±0.3
MC3216-270K	27±10%	35	1	14	0.90	5	1.1±0.3
MC3216-330K	33±10%	35	1	13	1.05	5	1.1±0.3
MC3216-390K	39±10%	40	2	11	3.00	10	1.6±0.3
MC3216-470K	47±10%	40	2	10	3.40	10	1.6±0.3

► Electrical Characteristics For MC3225 Series

Part Number	Inductance [uH]	Q (min)	Test Freq L,Q [MHz]	SRF(min) [MHz]	DCR(max) [Ω]	IDC(max) [mA]	Thickness [mm]
MC3225-R10K	0.10±10%	20	25	235	0.25	250	1.3±0.3
MC3225-R12K	0.12±10%	20	25	220	0.30	250	1.3±0.3
MC3225-R15K	0.15±10%	20	25	200	0.30	250	1.3±0.3
MC3225-R18K	0.18±10%	20	25	185	0.40	250	1.3±0.3
MC3225-R22K	0.22±10%	20	25	170	0.40	250	1.3±0.3
MC3225-R27K	0.27±10%	20	25	150	0.50	250	1.3±0.3
MC3225-R33K	0.33±10%	20	25	145	0.60	250	1.3±0.3
MC3225-R39K	0.39±10%	25	25	135	0.50	200	1.3±0.3
MC3225-R47K	0.47±10%	25	25	125	0.60	200	1.3±0.3
MC3225-R56K	0.56±10%	25	25	115	0.70	150	1.3±0.3
MC3225-R68K	0.68±10%	25	25	105	0.80	150	1.3±0.3
MC3225-R82K	0.82±10%	25	25	100	0.90	150	1.3±0.3
MC3225-1R0K	1.0±10%	45	10	75	0.40	100	1.3±0.3
MC3225-1R2K	1.2±10%	45	10	65	0.50	100	1.3±0.3
MC3225-1R5K	1.5±10%	45	10	60	0.50	50	1.3±0.3
MC3225-1R8K	1.8±10%	45	10	55	0.50	50	1.3±0.3
MC3225-2R2K	2.2±10%	45	10	50	0.60	50	1.3±0.3
MC3225-2R7K	2.7±10%	45	10	45	0.60	50	1.3±0.3
MC3225-3R3K	3.3±10%	45	10	41	0.70	50	1.3±0.3
MC3225-3R9K	3.9±10%	45	10	38	0.80	50	1.3±0.3
MC3225-4R7K	4.7±10%	45	10	35	0.90	50	1.3±0.3
MC3225-5R6K	5.6±10%	50	4	32	0.70	25	1.3±0.3
MC3225-6R8K	6.8±10%	50	4	29	0.80	25	1.3±0.3
MC3225-8R2K	8.2±10%	50	4	26	0.90	25	1.3±0.3
MC3225-100K	10±10%	50	2	24	1.00	25	1.3±0.3
MC3225-120K	12±10%	50	2	22	1.05	15	1.3±0.3
MC3225-150K	15±10%	35	1	19	0.70	5	1.3±0.3
MC3225-180K	18±10%	35	1	18	0.70	5	1.3±0.3
MC3225-220K	22±10%	35	1	16	0.90	5	1.3±0.3
MC3225-270K	27±10%	35	1	14	0.90	5	1.3±0.3
MC3225-330K	33±10%	35	0.4	13	1.05	5	1.3±0.3
MC3225-390K	39±10%	40	2	11	3.00	10	1.3±0.3
MC3225-470K	47±10%	40	2	10	3.40	10	1.3±0.3
MC3225-560K	56±10%	40	2	9.5	3.80	4	1.3±0.3
MC3225-680K	68±10%	40	1	9.5	3.00	4	1.3±0.3
MC3225-820K	82±10%	40	1	9	3.40	4	1.3±0.3
MC3225-101K	100±10%	40	1	8	3.80	4	2.2±0.3
MC3225-121K	120±10%	30	0.4	6	3.00	2	2.2±0.3



Features

- Compact size inductor possible
- Monolithic structure for high reliability
- No cross coupling due to magnetic shield
- Excellent solderability and high heat resistance for reflow soldering or wave soldering.

General Specifications

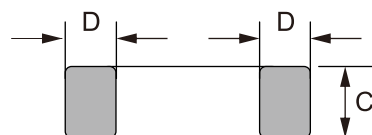
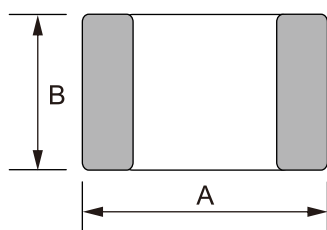
- Operating temp range: -55°C to +125°C
- Storage temp range: -40°C to +85°C

Applications

- Communications
- Personal computers
- Remote control
- Video and audio



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D
MCLS1608 (0603)	1.6±0.15	0.8±0.15	0.5±0.15 0.8±0.15	0.3±0.2
MCLS2012 (0805)	2.0 +0.3/-0.1	1.25±0.2	0.9±0.2 1.25±0.2	0.5±0.3
MCLS2016 (0806)	2.0 +0.3/-0.1	1.6±0.15	0.9±0.2	0.5±0.3
MCLS2520 (1008)	2.5±0.2	2.0 +0.3/-0.1	0.9±0.2 1.1±0.2	0.5±0.3
MCLS3216 (1206)	3.2±0.2	1.6±0.2	0.9±0.2	0.5±0.3

► Electrical Characteristics For MCLS1608 Series

Part Number	Inductance [uH]	L Test Freq [MHz]	SRF(min) [MHz]	DCR [Ω]	IDC(max) [mA]	Thickness [mm]
MCLS1608-R47M-0.9A	0.47	5	105	0.19±25%	900	0.5±0.15
MCLS1608-R47M-1.2A	0.47	5	105	0.12±25%	1200	0.8±0.15
MCLS1608-R47M-0.8A	0.47	5	105	0.25±25%	800	0.8±0.15
MCLS1608-R68M-1A	0.68	5	90	0.16±25%	1000	0.8±0.15
MCLS1608-1R0M-0.95A	1.0	1	75	0.20±25%	950	0.8±0.15
MCLS1608-1R5M-0.8A	1.5	1	50	0.25±25%	800	0.8±0.15
MCLS1608-2R2M-0.75A	2.2	1	40	0.30±25%	750	0.8±0.15
MCLS1608-2R2M-1A	2.2	1	80	0.20 max	1000	0.8±0.15

► Electrical Characteristics For MCLS2012 Series

Part Number	Inductance [uH]	L Test Freq [MHz]	SRF(min) [MHz]	DCR [Ω]	IDC(max) [mA]	Thickness [mm]
MCLS2012-R47M-1.1A	0.47	1	100	0.12±25%	1100	0.9±0.2
MCLS2012-1R0M-0.8A	1.0	1	60	0.19±25%	800	0.9±0.2
MCLS2012-1R5M-0.7A	1.5	1	50	0.26±25%	700	0.9±0.2
MCLS2012-2R2M-0.6A	2.2	1	40	0.34±25%	600	0.9±0.2
MCLS2012-R47M-1.2A	0.47	1	100	0.09±25%	1200	0.9±0.2
MCLS2012-1R0M-1.0A	1.0	1	60	0.11±25%	1000	0.9±0.2
MCLS2012-1R5M-0.9A	1.5	1	50	0.16±25%	900	0.9±0.2
MCLS2012-2R2M-0.8A	2.2	1	40	0.25±25%	800	0.9±0.2
MCLS2012-3R3M-0.9A	3.3	1	30	0.19±25%	900	0.9±0.2
MCLS2012-4R7M-0.8A	4.7	1	30	0.25±25%	800	0.9±0.2
MCLS2012-2R2M-0.5A	2.2	1	40	0.45±25%	500	0.9±0.2
MCLS2012-2R2M-0.64A	2.2	1	40	0.33±30%	640	1.25±0.2
MCLS2012-4R7M-0.6A	4.7	1	25	0.50±30%	600	1.25±0.2

► Electrical Characteristics For MCLS2016 Series

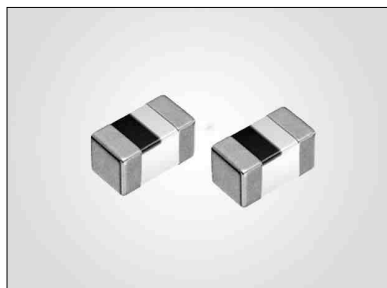
Part Number	Inductance [uH]	L Test Freq [MHz]	SRF(min) [MHz]	DCR [Ω]	IDC(max) [mA]	Thickness [mm]
MCLS2016-R47M-1.6A	0.47	1	100	0.06±25%	1600	0.9±0.2
MCLS2016-1R0M-1.4A	1.0	1	70	0.09±25%	1400	0.9±0.2
MCLS2016-1R5M-1.2A	1.5	1	60	0.11±25%	1200	0.9±0.2
MCLS2016-2R2M-1.2A	2.2	1	50	0.11±25%	1200	0.9±0.2
MCLS2016-3R3M-1.2A	3.3	1	40	0.12±25%	1200	0.9±0.2
MCLS2016-4R7M-1.1A	4.7	1	30	0.14±25%	1100	0.9±0.2

► Electrical Characteristics For MCLS2520 Series

Part Number	Inductance [uH]	L Test Freq [MHz]	SRF(min) [MHz]	DCR [Ω]	IDC(max) [mA]	Thickness [mm]
MCLS2520-R47M-1.8A	0.47	1	100	0.04±25%	1800	0.9±0.2
MCLS2520-1R0M-1.6A	1.0	1	60	0.06±25%	1600	0.9±0.2
MCLS2520-1R5M-1.5A	1.5	1	50	0.07±25%	1500	0.9±0.2
MCLS2520-2R2M-1.3A	2.2	1	40	0.08±25%	1300	0.9±0.2
MCLS2520-3R3M-1.2A	3.3	1	30	0.10±25%	1200	0.9±0.2
MCLS2520-4R7M-1.1A	4.7	1	25	0.11±25%	1100	0.9±0.2
MCLS2520-1R0M-1.5A	1.0	1	70	0.09±25%	1500	1.1±0.2
MCLS2520-2R2M-1.0A	2.2	1	40	0.12±25%	1000	1.1±0.2
MCLS2520-3R3M-1.0A	3.3	1	30	0.12±25%	1000	1.1±0.2
MCLS2520-4R7M-0.9A	4.7	1	25	0.14±25%	900	1.1±0.2
MCLS2520-100M-0.8A	10	1	15	0.30±30%	800	1.1±0.2

► Electrical Characteristics For MCLS3216 Series

Part Number	Inductance [μH]	L Test Freq [MHz]	SRF(min) [MHz]	DCR(max) [Ω]	IDC(max) [mA]	Thickness [mm]
MCLS3216-1R0M-1.2A	1.0	1	60	0.15	1200	0.9±0.2
MCLS3216-1R2M-1.2A	1.2	1	65	0.15	1200	0.9±0.2
MCLS3216-1R5M-1.0A	1.5	1	60	0.17	1000	0.9±0.2
MCLS3216-1R8M-0.9A	1.8	1	55	0.24	900	0.9±0.2
MCLS3216-2R2M-0.9A	2.2	1	50	0.24	900	0.9±0.2
MCLS3216-2R7M-0.8A	2.7	1	45	0.30	800	0.9±0.2
MCLS3216-3R3M-0.8A	3.3	1	41	0.30	800	0.9±0.2
MCLS3216-3R9M-0.7A	3.9	1	38	0.38	700	0.9±0.2
MCLS3216-4R7M-0.7A	4.7	1	35	0.38	700	0.9±0.2
MCLS3216-5R6M-0.5A	5.6	1	32	0.45	500	0.9±0.2
MCLS3216-6R8M-0.5A	6.8	1	29	0.45	500	0.9±0.2
MCLS3216-8R2M-0.3A	8.2	1	26	0.55	300	0.9±0.2
MCLS3216-100M-0.3A	10	1	24	0.55	300	0.9±0.2
MCLS3216-120M-0.3A	12	1	22	0.55	300	0.9±0.2
MCLS3216-150M-0.1A	15	1	19	0.65	100	0.9±0.2
MCLS3216-180M-0.1A	18	1	18	0.65	100	0.9±0.2



Features

- Monolithic structure for high reliability
- Compact size inductor possible
- Perfect shape for mounting with no directionality
- Excellent solderability and high heat resistance for either flow or reflow soldering

General Specifications

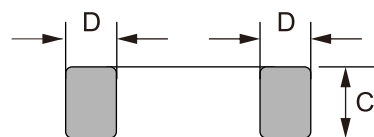
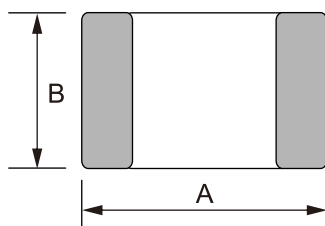
- Operating temp range: -55°C to +125°C
- Storage temp range: -40°C to +85°C

Applications

- Mobile phones
- Personal computers
- Cordless phones
- Pagers



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D
MCL0603 [0201]	0.6±0.05	0.3±0.05	0.3±0.05	0.12±0.05
MCL1005 [0402]	1.0±0.15	0.5±0.15	0.5±0.15	0.25±0.1
MCL1608 [0603]	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
MCL2012 [0805]	2.0+0.3/-0.1	1.25±0.2	0.85±0.2	0.5±0.3

► Electrical Characteristics For MCL0603 Series

Part Number	Inductance	Mini. Quality Factor	L,Q test Freq.	Typical Q @ Freq.(GHz)					Mini.self resonant frequency	Max.DC resistance	Max. rated Current
				0.5	0.8	1.8	2	2.4			
Unit	nH	-	MHz	-					MHz	Ω	mA
Symbol	L	Q	Freq.	Q					S.R.F	DCR	I _r
MCL0603-0N6S	0.6	13	500	>24	>32	>54	>57	>65	10000	0.06	600
MCL0603-0N7S	0.7	13	500	>24	>32	>54	>57	>65	10000	0.06	550
MCL0603-0N8S	0.8	13	500	>24	>32	>54	>57	>65	10000	0.07	550
MCL0603-0N9S	0.9	13	500	>24	>32	>54	>57	>65	10000	0.07	550
MCL0603-1N0S	1.0	13	500	24	32	54	57	65	10000	0.08	520
MCL0603-1N1S	1.1	13	500	19	26	45	47	55	10000	0.11	440
MCL0603-1N2S	1.2	13	500	19	25	43	44	52	10000	0.12	420
MCL0603-1N3S	1.3	13	500	19	25	40	42	47	10000	0.12	420
MCL0603-1N4S	1.4	13	500	19	24	39	41	47	10000	0.11	440
MCL0603-1N5S	1.5	13	500	19	24	39	41	46	10000	0.12	420
MCL0603-1N6S	1.6	13	500	19	24	39	41	46	10000	0.13	410
MCL0603-1N7S	1.7	13	500	19	24	39	41	46	10000	0.15	380
MCL0603-1N8S	1.8	13	500	19	24	39	41	46	10000	0.15	380
MCL0603-1N9S	1.9	13	500	18	24	38	40	45	10000	0.18	350

► Electrical Characteristics For MCL0603 Series

PartNumber	Inductance	Mini. Quality Factor	L,Q test Freq.	Typical Q @ Freq. (GHz)					Mini.self resonant frequency	Max.DC resistance	Max. rated Current
				0.5	0.8	1.8	2	2.4			
Unit	nH	-	MHz	-					MHz	Ω	mA
Symbol	L	Q	Freq.	Q					S.R.F	DCR	I _r
MCL0603-2N0S	2.0	13	500	17	24	38	39	44	10000	0.23	300
MCL0603-2N1S	2.1	13	500	17	24	37	39	44	10000	0.24	300
MCL0603-2N2S	2.2	13	500	17	24	38	40	43	10000	0.25	290
MCL0603-2N3S	2.3	13	500	17	24	37	39	43	10000	0.2	330
MCL0603-2N4S	2.4	13	500	17	23	36	38	42	10000	0.22	310
MCL0603-2N5S	2.5	13	500	17	23	35	36	40	9600	0.2	330
MCL0603-2N6S	2.6	13	500	17	22	34	35	39	9400	0.2	330
MCL0603-2N7S	2.7	13	500	17	22	34	35	39	9200	0.22	310
MCL0603-2N8S	2.8	13	500	17	22	34	35	39	8900	0.24	300
MCL0603-2N9S	2.9	13	500	17	22	34	35	39	8800	0.26	280
MCL0603-3N0S	3.0	13	500	17	22	34	35	39	8600	0.26	280
MCL0603-3N1S	3.1	13	500	17	22	34	35	39	8500	0.28	270
MCL0603-3N2S	3.2	13	500	17	22	33	35	39	8200	0.28	270
MCL0603-3N3S	3.3	13	500	18	23	34	36	40	8100	0.3	270
MCL0603-3N4S	3.4	13	500	17	23	33	35	39	8000	0.3	270
MCL0603-3N5S	3.5	13	500	17	23	33	35	39	7900	0.34	250
MCL0603-3N6S	3.6	13	500	16	23	33	35	39	7700	0.38	240
MCL0603-3N7S	3.7	13	500	16	23	33	35	38	7600	0.4	230
MCL0603-3N8S	3.8	13	500	16	22	33	35	38	7500	0.42	230
MCL0603-3N9S	3.9	13	500	16	22	33	35	38	7400	0.42	230
MCL0603-4N3S	4.3	13	500	16	21	32	34	37	6800	0.44	220
MCL0603-4N7S	4.7	13	500	16	22	33	35	38	6200	0.45	220
MCL0603-5N1S	5.1	13	500	17	22	34	36	38	5900	0.46	210
MCL0603-5N6S	5.6	13	500	16	21	33	34	37	5500	0.46	210
MCL0603-6N2J	6.2	13	500	18	23	34	35	37	5100	0.48	210
MCL0603-6N8J	6.8	13	500	17	22	32	33	35	4900	0.5	200
MCL0603-7N5J	7.5	13	500	16	21	31	33	34	4700	0.5	200
MCL0603-8N2J	8.2	13	500	16	21	31	32	34	4300	0.56	190
MCL0603-9N1J	9.1	13	500	16	20	30	31	32	4100	0.72	170
MCL0603-10NJ	10	13	500	16	20	28	29	31	3800	0.8	160
MCL0603-12NJ	12	13	500	16	20	27	28	28	3400	0.8	160
MCL0603-15NJ	15	13	500	15	19	24	24	23	2600	0.85	160
MCL0603-18NJ	18	13	500	15	19	23	24	22	2300	1	140
MCL0603-22NJ	22	13	500	15	19	22	23	20	1900	1.2	130
MCL0603-27NJ	27	13	500	15	19	15	13	8	1800	1.6	120
MCL0603-33NJ	33	11	300	14	15	8	5	-	1800	2.2	110
MCL0603-39NJ	39	11	300	14	15	6	-	-	1600	2.3	100
MCL0603-47NJ	47	11	300	14	15	-	-	-	1500	2.6	100
MCL0603-56NJ	56	11	300	13	13	-	-	-	1400	2.8	80
MCL0603-68NJ	68	11	300	13	11	-	-	-	1200	3.2	80
MCL0603-82NJ	82	10	300	12	10	-	-	-	1100	3.8	70
MCL0603-R10J	100	10	300	12	10	-	-	-	1000	4	60
MCL0603-R12J	120	9	300	12	8	-	-	-	1000	5	50

► Electrical Characteristics For MCL1005 Series

PartNumber	Inductance	Mini. Quality Factor	L,Q test Freq.	Typical Q @ Freq. (MHz)			Mini.self resonant frequency	Max.DC resistance	Max. rated Current
				100	800	1000			
Unit	nH	-	MHz	-			MHz	Ω	mA
Symbol	L	Q	Freq.	Q			S.R.F	DCR	I _r
MCL1005-1N0S	1.0±0.3	8	100	11	34	36	10000	0.1	400
MCL1005-1N1S	1.1±0.3	8	100	11	34	36	10000	0.1	400
MCL1005-1N2S	1.2±0.3	8	100	11	34	36	10000	0.1	400
MCL1005-1N3S	1.3±0.3	8	100	11	34	36	10000	0.1	400
MCL1005-1N5S	1.5±0.3	8	100	11	34	36	6000	0.1	300
MCL1005-1N6S	1.6±0.3	8	100	11	32	35	6000	0.1	300
MCL1005-1N8S	1.8±0.3	8	100	11	30	34	6000	0.1	300
MCL1005-2N0S	2.0±0.3	8	100	10	29	33	6000	0.2	300
MCL1005-2N2S	2.2±0.3	8	100	10	29	33	6000	0.2	300
MCL1005-2N4S	2.4±0.3	8	100	10	29	32	6000	0.2	300
MCL1005-2N7S	2.7±0.3	8	100	10	29	32	6000	0.2	300
MCL1005-3N0S	3.0±0.3	8	100	10	29	32	6000	0.2	300
MCL1005-3N3S	3.3±0.3	8	100	10	29	32	6000	0.2	300
MCL1005-3N6S	3.6±0.3	8	100	10	28	31	4000	0.2	300
MCL1005-3N9S	3.9±0.3	8	100	10	28	31	4000	0.2	300
MCL1005-4N3S	4.3±0.3	8	100	10	28	31	4000	0.2	300
MCL1005-4N7S	4.7±0.3	8	100	10	28	31	4000	0.2	300
MCL1005-5N1S	5.1±0.3	8	100	10	28	30	4000	0.3	300
MCL1005-5N6S	5.6±0.3	8	100	10	28	30	4000	0.3	300
MCL1005-6N2S	6.2±0.3	8	100	10	27	30	3900	0.3	300
MCL1005-6N8J	6.8	8	100	10	27	30	3900	0.3	300
MCL1005-7N5J	7.5	8	100	10	27	30	3700	0.4	300
MCL1005-8N2J	8.2	8	100	10	27	30	3600	0.4	300
MCL1005-9N1J	9.1	8	100	10	27	30	3400	0.4	300
MCL1005-10NJ	10	8	100	10	27	30	3200	0.4	300
MCL1005-12NJ	12	8	100	10	26	29	2700	0.5	300
MCL1005-15NJ	15	8	100	10	26	28	2300	0.5	300
MCL1005-18NJ	18	8	100	10	25	27	2100	0.6	300
MCL1005-20NJ	20	8	100	10	25	26	2000	0.6	300
MCL1005-22NJ	22	8	100	10	25	25	1900	0.6	300
MCL1005-27NJ	27	8	100	10	25	23	1600	0.7	300
MCL1005-33NJ	33	8	100	10	22	22	1300	0.8	200
MCL1005-39NJ	39	8	100	10	22	19	1200	1	200
MCL1005-43NJ	43	8	100	10	21	16	1100	1.1	200
MCL1005-47NJ	47	8	100	10	21	16	1000	1.1	200
MCL1005-56NJ	56	8	100	10	18	13	750	1.2	200
MCL1005-68NJ	68	8	100	10	18	9	750	1.4	180
MCL1005-82NJ	82	8	100	10	13	-	750	2.4	150
MCL1005-R10J	100	8	100	10	12	-	700	2.6	150
MCL1005-R12J	120	8	100	10	-	-	600	2.8	150
MCL1005-R15J	150	8	100	10	-	-	550	3.2	100
MCL1005-R18J	180	8	100	10	-	-	500	3.7	100
MCL1005-R22J	220	8	100	12	-	-	450	4	100
MCL1005-R27J	270	8	100	12	-	-	400	4.5	100
MCL1005-R33J	330	6	50	-	-	-	350	7	50

► Electrical Characteristics For MCL1608 Series

PartNumber	Inductance	Mini. Quality Factor	L,Q test Freq.	Typical Q @ Freq. (MHz)			Mini.self resonant frequency	Max.DC resistance	Max. rated Current
				100	800	1000			
Unit	nH	-	MHz	-			MHz	Ω	mA
Symbol	L	Q	Freq.	Q			S.R.F	DCR	I _r
MCL1608-1N0S	1.0±0.3	8	100	13	70	80	10000	0.05	500
MCL1608-1N2S	1.2±0.3	8	100	13	60	70	10000	0.05	500
MCL1608-1N5S	1.5±0.3	8	100	13	47	68	6000	0.1	500
MCL1608-1N8S	1.8±0.3	8	100	13	45	61	6000	0.1	500
MCL1608-2N2S	2.2±0.3	8	100	13	45	60	6000	0.1	500
MCL1608-2N7S	2.7±0.3	10	100	13	44	55	6000	0.12	500
MCL1608-3N3S	3.3±0.3	10	100	13	43	50	6000	0.15	500
MCL1608-3N9S	3.9±0.3	10	100	13	43	50	6000	0.16	500
MCL1608-4N7S	4.7±0.3	10	100	13	43	50	6000	0.2	500
MCL1608-5N6S	5.6±0.3	10	100	14	42	48	5000	0.25	500
MCL1608-6N8J	6.8	10	100	14	43	50	5000	0.3	500
MCL1608-8N2J	8.2	10	100	14	43	48	4500	0.35	500
MCL1608-10NJ	10	12	100	15	45	50	3500	0.4	300
MCL1608-12NJ	12	12	100	18	48	50	3000	0.45	300
MCL1608-15NJ	15	12	100	18	48	50	2300	0.5	300
MCL1608-18NJ	18	12	100	16	48	51	2200	0.55	300
MCL1608-22NJ	22	12	100	16	45	48	2000	0.6	300
MCL1608-27NJ	27	12	100	16	45	45	1700	0.65	300
MCL1608-33NJ	33	12	100	16	45	41	1500	0.7	300
MCL1608-39NJ	39	12	100	17	40	48	1400	0.7	300
MCL1608-47NJ	47	12	100	17	35	35	1200	0.7	300
MCL1608-56NJ	56	12	100	17	35	30	1100	0.75	300
MCL1608-68NJ	68	12	100	17	30	20	900	0.85	300
MCL1608-82NJ	82	8	100	15	22	-	800	1	300
MCL1608-R10J	100	8	100	15	16	-	700	1.2	300
MCL1608-R12J	120	8	50	15	-	-	600	1.4	200
MCL1608-R15J	150	8	50	15	-	-	500	1.6	200
MCL1608-R18J	180	8	50	15	-	-	400	1.9	200
MCL1608-R22J	220	8	50	15	-	-	350	2.4	200
MCL1608-R27J	270	8	50	16	-	-	350	2.6	150
MCL1608-R33J	330	8	50	16	-	-	350	2.8	150
MCL1608-R39J	390	8	50	16	-	-	300	3.2	150
MCL1608-R43J	430	8	50	16	-	-	280	3.4	150
MCL1608-R47J	470	8	50	15	-	-	250	3.6	150
MCL1608-R56J	560	8	50	15	-	-	250	4	100
MCL1608-R68J	680	8	50	15	-	-	250	4.5	100

► Electrical Characteristics For MCL2012 Series

PartNumber	Inductance	Mini. Quality Factor	L,Q test Freq.	Mini.self resonant frequency	Max.DC resistance	Max. rated Current
Unit	nH	-	MHz	MHz	Ω	mA
Symbol	L	Q	Freq.	S.R.F	DCR	I _r
MCL2012-1N0S	1.0	10	100	>3000	0.1	600
MCL2012-1N5S	1.5	10	100	>3000	0.1	600
MCL2012-1N8S	1.8	10	100	>3000	0.1	600
MCL2012-2N2S	2.2	10	100	>3000	0.1	600
MCL2012-2N7S	2.7	10	100	>3000	0.1	600
MCL2012-3N3S	3.3	10	100	>3000	0.13	600
MCL2012-3N9S	3.9	10	100	>3000	0.15	600
MCL2012-4N7S	4.7	10	100	>3000	0.2	400
MCL2012-5N6S	5.6	10	100	>3000	0.23	400
MCL2012-6N8J	6.8	10	100	>3000	0.25	400
MCL2012-8N2J	8.2	10	100	>3000	0.28	400
MCL2012-10NJ	10	10	100	2500	0.3	300
MCL2012-12NJ	12	10	100	2450	0.3	300
MCL2012-15NJ	15	10	100	2000	0.4	300
MCL2012-18NJ	18	10	100	1750	0.45	300
MCL2012-22NJ	22	10	100	1700	0.5	300
MCL2012-27NJ	27	10	100	1550	0.55	300
MCL2012-33NJ	33	10	100	1350	0.6	300
MCL2012-39NJ	39	13	100	1300	0.65	300
MCL2012-47NJ	47	15	100	1200	0.7	300
MCL2012-56NJ	56	15	100	1150	0.75	300
MCL2012-68NJ	68	15	100	1000	0.8	300
MCL2012-82NJ	82	15	100	850	0.9	300
MCL2012-R10J	100	15	100	600	1	300
MCL2012-R12J	120	15	50	500	1.5	300
MCL2012-R15J	150	15	50	500	1.5	300
MCL2012-R22J	220	13	50	350	2.1	200



Features

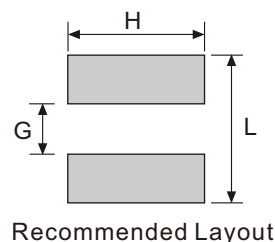
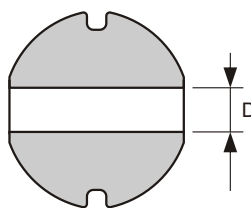
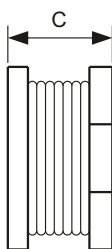
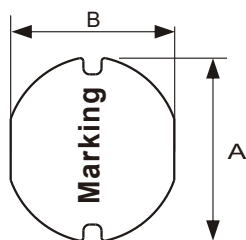
- Ferrite drum core construction.
- Magnetically unshielded
- Suitable for large currents.
- Ideal for a variety of DC-DC converter inductor application.
- Custom inductors are available to meet your exact requirements.

General Specifications

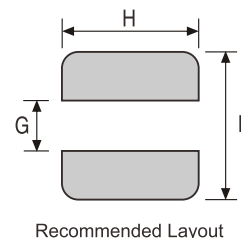
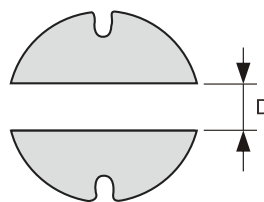
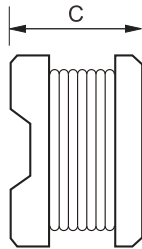
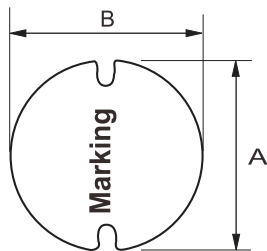
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A $\pm$ 0.3	B $\pm$ 0.3	C $\pm$ 0.3	D (Ref)	G (Ref)	H (Ref)	L (Ref)
MS32	3.5	3.0	2.1	1.0	0.9	3.5	4
MS43	4.5	4.0	3.2	1.6	1.5	4.5	5
MS52	5.6	5.2	2.5	2.1	1.7	5.5	6
MS53	5.6	5.2	3.0	2.1	1.7	5.5	6
MS54	5.6	5.2	4.5	2.1	1.7	5.5	6
MS73	7.5	7.0	3.5	2.5	2.0	7.5	8
MS75	7.5	7.0	5.0	2.5	2.0	7.5	8
MS104	10.0	9.0	4.0	3.0	2.5	9.5	10
MS105	10.0	9.0	5.4	3.0	2.5	9.5	10



Type	A $\pm$ 0.3	B $\pm$ 0.3	C $\pm$ 0.3	D (Ref)	G (Ref)	H (Ref)	L (Ref)
MS1307	13.0	13.0	7.0	5.0	4.5	14.0	14.0

Electrical Characteristics For MS32 Series

Part Number	Inductance [μ H]	DCR (max) [Ω]	Rated Current (max) [A]
MS32-1R0M	1.0 $\pm$ 20%	0.07	2.08
MS32-2R2M	2.2 $\pm$ 20%	0.13	1.39
MS32-2R7M	2.7 $\pm$ 20%	0.14	1.32
MS32-3R3M	3.3 $\pm$ 20%	0.20	1.25
MS32-3R9M	3.9 $\pm$ 20%	0.21	1.20
MS32-4R7M	4.7 $\pm$ 20%	0.33	1.03
MS32-5R6M	5.6 $\pm$ 20%	0.35	0.91
MS32-6R8M	6.8 $\pm$ 20%	0.38	0.85
MS32-8R2M	8.2 $\pm$ 20%	0.43	0.82
MS32-100M	10 $\pm$ 20%	0.50	0.74
MS32-120M	12 $\pm$ 20%	0.65	0.64
MS32-150M	15 $\pm$ 20%	0.82	0.60
MS32-180M	18 $\pm$ 20%	0.90	0.54
MS32-220M	22 $\pm$ 20%	1.14	0.50
MS32-270M	27 $\pm$ 20%	1.39	0.43
MS32-330K	33 $\pm$ 10%	1.55	0.40
MS32-390K	39 $\pm$ 10%	2.15	0.37
MS32-470K	47 $\pm$ 10%	2.44	0.36
MS32-560K	56 $\pm$ 10%	2.68	0.31
MS32-680K	68 $\pm$ 10%	3.05	0.30
MS32-820K	82 $\pm$ 10%	3.48	0.28
MS32-101K	100 $\pm$ 10%	4.10	0.22
MS32-121K	120 $\pm$ 10%	4.89	0.20
MS32-151K	150 $\pm$ 10%	6.08	0.17
MS32-181K	180 $\pm$ 10%	7.26	0.15
MS32-221K	220 $\pm$ 10%	8.83	0.11
MS32-271K	270 $\pm$ 10%	10.8	0.074
MS32-331K	330 $\pm$ 10%	13.0	0.065
MS32-391K	390 $\pm$ 10%	15.2	0.060
MS32-471K	470 $\pm$ 10%	17.5	0.045
MS32-561K	560 $\pm$ 10%	22.5	0.030
MS32-471K	470 $\pm$ 10%	17.5	0.045
MS32-561K	560 $\pm$ 10%	22.5	0.030

Electrical Characteristics For MS43 Series

Part Number	Inductance [μ H]	DCR (max) [Ω]	Rated Current (max) [A]
MS43-1R0M	1.0 $\pm$ 20%	0.033	3.80
MS43-2R2M	2.2 $\pm$ 20%	0.047	2.60
MS43-2R7M	2.7 $\pm$ 20%	0.052	2.43
MS43-3R3M	3.3 $\pm$ 20%	0.058	2.15
MS43-4R7M	4.7 $\pm$ 20%	0.094	1.70
MS43-6R8M	6.8 $\pm$ 20%	0.117	1.43
MS43-8R2M	8.2 $\pm$ 20%	0.132	1.26
MS43-100M	10 $\pm$ 20%	0.182	1.15
MS43-120M	12 $\pm$ 20%	0.210	1.05
MS43-150M	15 $\pm$ 20%	0.235	0.92
MS43-180M	18 $\pm$ 20%	0.338	0.84
MS43-220M	22 $\pm$ 20%	0.378	0.76
MS43-270K	27 $\pm$ 10%	0.522	0.71
MS43-330K	33 $\pm$ 10%	0.540	0.64
MS43-390K	39 $\pm$ 10%	0.587	0.59
MS43-470K	47 $\pm$ 10%	0.844	0.54
MS43-560K	56 $\pm$ 10%	0.937	0.50
MS43-680K	68 $\pm$ 10%	1.170	0.48
MS43-820K	82 $\pm$ 10%	1.200	0.46
MS43-101K	100 $\pm$ 10%	1.520	0.44
MS43-121K	120 $\pm$ 10%	1.800	0.43
MS43-151K	150 $\pm$ 10%	2.000	0.42
MS43-181K	180 $\pm$ 10%	3.200	0.38
MS43-221K	220 $\pm$ 10%	3.400	0.36
MS43-271K	270 $\pm$ 10%	3.900	0.34
MS43-331K	330 $\pm$ 10%	5.300	0.28

Electrical Characteristics For MS52 Series

Part Number	Inductance [μ H]	DCR (max) [Ω]	Rated Current (max) [A]
MS52-2R2M	2.2 $\pm$ 20%	0.039	2.16
MS52-2R7M	2.7 $\pm$ 20%	0.044	2.08
MS52-3R3M	3.3 $\pm$ 20%	0.049	1.90
MS52-3R9M	3.9 $\pm$ 20%	0.056	1.84
MS52-4R7M	4.7 $\pm$ 20%	0.062	1.60
MS52-5R6M	5.6 $\pm$ 20%	0.078	1.44
MS52-6R8M	6.8 $\pm$ 20%	0.091	1.36
MS52-8R2M	8.2 $\pm$ 20%	0.103	1.12
MS52-100M	10 $\pm$ 20%	0.133	1.04
MS52-120M	12 $\pm$ 20%	0.148	0.96
MS52-150M	15 $\pm$ 20%	0.166	0.88
MS52-180M	18 $\pm$ 20%	0.213	0.77
MS52-220M	22 $\pm$ 20%	0.248	0.73
MS52-270M	27 $\pm$ 20%	0.328	0.64
MS52-330K	33 $\pm$ 10%	0.378	0.58
MS52-390K	39 $\pm$ 10%	0.438	0.54
MS52-470K	47 $\pm$ 10%	0.546	0.49
MS52-560K	56 $\pm$ 10%	0.621	0.45
MS52-680K	68 $\pm$ 10%	0.715	0.41
MS52-820K	82 $\pm$ 10%	1.00	0.35
MS52-101K	100 $\pm$ 10%	1.07	0.35
MS52-121K	120 $\pm$ 10%	1.25	0.32
MS52-151K	150 $\pm$ 10%	1.66	0.26
MS52-181K	180 $\pm$ 10%	1.90	0.23
MS52-221K	220 $\pm$ 10%	2.44	0.21
MS52-271K	270 $\pm$ 10%	2.73	0.19

Electrical Characteristics For MS53 Series

Part Number	Inductance [μ H]	DCR (max) [Ω]	Rated Current (max) [A]
MS53-1R0M	1.0 $\pm$ 20%	0.038	4.50
MS53-2R2M	2.2 $\pm$ 20%	0.045	3.50
MS53-3R3M	3.3 $\pm$ 20%	0.055	2.80
MS53-3R9M	3.9 $\pm$ 20%	0.064	2.60
MS53-4R7M	4.7 $\pm$ 20%	0.072	2.50
MS53-5R6M	5.6 $\pm$ 20%	0.084	2.40
MS53-6R8M	6.8 $\pm$ 20%	0.090	2.20
MS53-8R2M	8.2 $\pm$ 20%	0.10	2.00
MS53-100M	10 $\pm$ 20%	0.12	1.80
MS53-120M	12 $\pm$ 20%	0.13	1.75
MS53-150M	15 $\pm$ 20%	0.15	1.70
MS53-180M	18 $\pm$ 20%	0.18	1.60
MS53-220M	22 $\pm$ 20%	0.22	1.50
MS53-270M	27 $\pm$ 20%	0.24	1.40
MS53-330K	33 $\pm$ 10%	0.30	1.10
MS53-390K	39 $\pm$ 10%	0.40	1.00
MS53-470K	47 $\pm$ 10%	0.43	0.90
MS53-560K	56 $\pm$ 10%	0.50	0.85
MS53-680K	68 $\pm$ 10%	0.60	0.80
MS53-820K	82 $\pm$ 10%	0.80	0.65
MS53-101K	100 $\pm$ 10%	0.90	0.60
MS53-121K	120 $\pm$ 10%	1.0	0.58
MS53-151K	150 $\pm$ 10%	1.3	0.43
MS53-181K	180 $\pm$ 10%	1.5	0.41
MS53-221K	220 $\pm$ 10%	2.0	0.38
MS53-271K	270 $\pm$ 10%	2.5	0.35
MS53-331K	330 $\pm$ 10%	3.2	0.28
MS53-391K	390 $\pm$ 10%	3.5	0.26
MS53-471K	470 $\pm$ 10%	4.2	0.20
MS53-561K	560 $\pm$ 10%	4.5	0.19
MS53-681K	680 $\pm$ 10%	6.5	0.18
MS53-821K	820 $\pm$ 10%	7.5	0.15
MS53-102K	1000 $\pm$ 10%	8.0	0.13

Electrical Characteristics For MS54 Series

Part Number	Inductance [μ H]	DCR (max) [Ω]	Rated Current (max) [A]
MS54-1R0M	1.0 $\pm$ 20%	0.017	5.0
MS54-1R5M	1.5 $\pm$ 20%	0.020	4.8
MS54-2R2M	2.2 $\pm$ 20%	0.025	4.6
MS54-2R7M	2.7 $\pm$ 20%	0.030	4.4
MS54-3R3M	3.3 $\pm$ 20%	0.033	4.0
MS54-3R9M	3.9 $\pm$ 20%	0.036	3.7
MS54-4R7M	4.7 $\pm$ 20%	0.040	3.3
MS54-6R8M	6.8 $\pm$ 20%	0.080	3.0
MS54-100M	10 $\pm$ 20%	0.100	1.44
MS54-120M	12 $\pm$ 20%	0.120	1.40
MS54-150M	15 $\pm$ 20%	0.140	1.30
MS54-180M	18 $\pm$ 20%	0.150	1.23
MS54-220M	22 $\pm$ 20%	0.180	1.11
MS54-270M	27 $\pm$ 20%	0.200	0.97
MS54-330K	33 $\pm$ 10%	0.230	0.88
MS54-390K	39 $\pm$ 10%	0.320	0.80
MS54-470K	47 $\pm$ 10%	0.370	0.72
MS54-560K	56 $\pm$ 10%	0.420	0.68
MS54-680K	68 $\pm$ 10%	0.460	0.61
MS54-820K	82 $\pm$ 10%	0.600	0.58
MS54-101K	100 $\pm$ 10%	0.700	0.52
MS54-121K	120 $\pm$ 10%	0.930	0.48
MS54-151K	150 $\pm$ 10%	1.100	0.40
MS54-181K	180 $\pm$ 10%	1.380	0.38
MS54-221K	220 $\pm$ 10%	1.570	0.35
MS54-271K	270 $\pm$ 10%	1.650	0.32
MS54-331K	330 $\pm$ 10%	1.700	0.28
MS54-391K	390 $\pm$ 10%	1.800	0.26
MS54-471K	470 $\pm$ 10%	2.300	0.23
MS54-561K	560 $\pm$ 10%	2.500	0.20
MS54-681K	680 $\pm$ 10%	3.600	0.19
MS54-821K	820 $\pm$ 10%	4.500	1.60
MS54-102K	1000 $\pm$ 10%	5.250	0.14

▶ Electrical Characteristics For MS73 Series

Part Number	Inductance [μH]	DCR (max) [Ω]	Rated Current (max) [A]
MS73-1R0M	1.0 ±20%	0.018	7.0
MS73-1R5M	1.5 ±20%	0.020	6.0
MS73-2R2M	2.2 ±20%	0.023	5.0
MS73-3R3M	3.3 ±20%	0.025	4.0
MS73-4R7M	4.7 ±20%	0.039	3.5
MS73-6R8M	6.8 ±20%	0.040	2.8
MS73-100M	10 ±20%	0.080	1.44
MS73-120M	12 ±20%	0.090	1.39
MS73-150M	15 ±20%	0.104	1.24
MS73-180M	18 ±20%	0.112	1.12
MS73-220M	22 ±20%	0.130	1.07
MS73-270M	27 ±20%	0.153	0.94
MS73-330K	33 ±10%	0.170	0.85
MS73-390K	39 ±10%	0.220	0.74
MS73-470K	47 ±10%	0.252	0.68
MS73-560K	56 ±10%	0.280	0.64
MS73-680K	68 ±10%	0.332	0.59
MS73-820K	82 ±10%	0.410	0.54
MS73-101K	100 ±10%	0.480	0.51
MS73-121K	120 ±10%	0.540	0.49
MS73-151K	150 ±10%	0.755	0.40
MS73-221K	220 ±10%	1.200	0.31
MS73-331K	330 ±10%	1.500	0.28
MS73-391K	390 ±10%	2.700	0.25
MS73-471K	470 ±10%	3.000	0.22
MS73-681K	680 ±10%	3.200	0.13
MS73-102K	1000 ±10%	4.800	0.08

Electrical Characteristics For MS75 Series

Part Number	Inductance [μ H]	DCR (max) [Ω]	Rated Current (max) [A]
MS75-1R0M	1.0 $\pm$ 20%	0.013	7.5
MS75-2R2M	2.2 $\pm$ 20%	0.023	5.3
MS75-3R3M	3.3 $\pm$ 20%	0.028	4.5
MS75-4R7M	4.7 $\pm$ 20%	0.045	4.0
MS75-6R8M	6.8 $\pm$ 20%	0.058	3.2
MS75-8R2M	8.2 $\pm$ 20%	0.070	2.8
MS75-100M	10 $\pm$ 20%	0.070	2.30
MS75-120M	12 $\pm$ 20%	0.080	2.00
MS75-150M	15 $\pm$ 20%	0.090	1.80
MS75-180M	18 $\pm$ 20%	0.100	1.60
MS75-220M	22 $\pm$ 20%	0.110	1.50
MS75-270M	27 $\pm$ 20%	0.120	1.30
MS75-330K	33 $\pm$ 10%	0.130	1.20
MS75-390K	39 $\pm$ 10%	0.160	1.10
MS75-470K	47 $\pm$ 10%	0.180	1.10
MS75-560K	56 $\pm$ 10%	0.240	0.94
MS75-680K	68 $\pm$ 10%	0.280	0.85
MS75-820K	82 $\pm$ 10%	0.370	0.78
MS75-101K	100 $\pm$ 10%	0.430	0.72
MS75-121K	120 $\pm$ 10%	0.470	0.66
MS75-151K	150 $\pm$ 10%	0.640	0.58
MS75-181K	180 $\pm$ 10%	0.710	0.51
MS75-221K	220 $\pm$ 10%	0.960	0.49
MS75-371K	270 $\pm$ 10%	1.110	0.42
MS75-331K	330 $\pm$ 10%	1.260	0.40
MS75-391K	390 $\pm$ 10%	1.770	0.36
MS75-471K	470 $\pm$ 10%	1.960	0.34
MS75-561K	560 $\pm$ 10%	2.000	0.33
MS75-681K	680 $\pm$ 10%	2.200	0.32
MS75-821K	820 $\pm$ 10%	2.900	0.25
MS75-102K	1000 $\pm$ 10%	3.900	0.20
MS75-222K	2200 $\pm$ 10%	10.00	0.20
MS75-472K	4700 $\pm$ 10%	20.00	0.14
MS75-333K	33000 $\pm$ 10%	110.0	0.03

Electrical Characteristics For MS104 Series

Part Number	Inductance [uH]	DCR (max) [Ω]	Rated Current (max) [A]
MS104-1R0M	1.0 ±20%	0.012	7.00
MS104-2R2M	2.2 ±20%	0.020	5.40
MS104-3R3M	3.3 ±20%	0.028	5.20
MS104-4R7M	4.7 ±20%	0.038	4.50
MS104-5R6M	5.6 ±20%	0.040	3.80
MS104-6R8M	6.8 ±20%	0.042	3.00
MS104-8R2M	8.2 ±20%	0.048	2.60
MS104-100M	10 ±20%	0.053	2.38
MS104-120M	12 ±20%	0.061	2.13
MS104-150M	15 ±20%	0.070	1.87
MS104-180M	18 ±20%	0.081	1.73
MS104-220M	22 ±20%	0.088	1.60
MS104-270M	27 ±20%	0.100	1.44
MS104-330K	33 ±10%	0.120	1.26
MS104-390K	39 ±10%	0.151	1.20
MS104-470K	47 ±10%	0.170	1.10
MS104-560K	56 ±10%	0.200	1.01
MS104-680K	68 ±10%	0.223	0.91
MS104-820K	82 ±10%	0.252	0.85
MS104-101K	100 ±10%	0.344	0.74
MS104-121K	120 ±10%	0.394	0.69
MS104-151K	150 ±10%	0.544	0.61
MS104-181K	180 ±10%	0.621	0.56
MS104-221K	220 ±10%	0.721	0.53
MS104-271K	270 ±10%	0.949	0.45
MS104-331K	330 ±10%	1.100	0.42
MS104-391K	390 ±10%	1.245	0.38
MS104-471K	470 ±10%	1.526	0.35
MS104-561K	560 ±10%	1.904	0.32
MS104-681K	680 ±10%	2.200	0.31
MS104-821K	820 ±10%	2.700	0.30
MS104-102K	1000 ±10%	3.500	0.29

Electrical Characteristics For MS105 Series

Part Number	Inductance [μ H]	DCR (max) [Ω]	Rated Current (max) [A]
MS105-1R0M	1.0 $\pm$ 20%	0.009	8.60
MS105-2R2M	2.2 $\pm$ 20%	0.016	7.20
MS105-3R3M	3.3 $\pm$ 20%	0.018	6.50
MS105-4R7M	4.7 $\pm$ 20%	0.020	5.50
MS105-6R8M	6.8 $\pm$ 20%	0.040	4.20
MS105-8R2M	8.2 $\pm$ 20%	0.050	3.50
MS105-100M	10 $\pm$ 20%	0.06	2.60
MS105-120M	12 $\pm$ 20%	0.07	2.45
MS105-150M	15 $\pm$ 20%	0.08	2.27
MS105-180M	18 $\pm$ 20%	0.09	2.15
MS105-220M	22 $\pm$ 20%	0.10	1.95
MS105-270M	27 $\pm$ 20%	0.11	1.76
MS105-330K	33 $\pm$ 10%	0.12	1.50
MS105-390K	39 $\pm$ 10%	0.14	1.37
MS105-470K	47 $\pm$ 10%	0.17	1.28
MS105-560K	56 $\pm$ 10%	0.19	1.17
MS105-680K	68 $\pm$ 10%	0.22	1.11
MS105-820K	82 $\pm$ 10%	0.25	1.00
MS105-101K	100 $\pm$ 10%	0.35	0.97
MS105-121K	120 $\pm$ 10%	0.40	0.89
MS105-151K	150 $\pm$ 10%	0.47	0.78
MS105-181K	180 $\pm$ 10%	0.63	0.72
MS105-221K	220 $\pm$ 10%	0.73	0.66
MS105-271K	270 $\pm$ 10%	0.97	0.57
MS105-331K	330 $\pm$ 10%	1.15	0.52
MS105-391K	390 $\pm$ 10%	1.30	0.48
MS105-471K	470 $\pm$ 10%	1.48	0.42
MS105-561K	560 $\pm$ 10%	1.90	0.33
MS105-681K	680 $\pm$ 10%	2.25	0.28
MS105-821K	820 $\pm$ 10%	2.55	0.24
MS105-102K	1000 $\pm$ 10%	3.00	0.20
MS105-222K	2200 $\pm$ 10%	5.30	0.18
MS105-123K	12000 $\pm$ 10%	30.0	0.10

Electrical Characteristics For MS1307 Series

Part Number	Inductance [μ H]	DCR (max) [m Ω]	Rated Current (max) [A]
MS1307-1R5M	1.5 $\pm$ 20%	5	20.0
MS1307-2R2M	2.2 $\pm$ 20%	6	18.0
MS1307-2R7M	2.7 $\pm$ 20%	8	16.0
MS1307-3R3M	3.3 $\pm$ 20%	9	15.0
MS1307-4R7M	4.7 $\pm$ 20%	10	13.0
MS1307-5R6M	5.6 $\pm$ 20%	15	11.0
MS1307-6R8M	6.8 $\pm$ 20%	17	10.5
MS1307-8R2M	8.2 $\pm$ 20%	19	9.8
MS1307-100M	10 $\pm$ 20%	21	9.2
MS1307-120M	12 $\pm$ 20%	30	8.0
MS1307-150M	15 $\pm$ 20%	34	7.5
MS1307-180M	18 $\pm$ 20%	36	7.0
MS1307-220M	22 $\pm$ 20%	47	6.5
MS1307-270M	27 $\pm$ 20%	60	5.5
MS1307-330K	33 $\pm$ 10%	65	5.0
MS1307-390K	39 $\pm$ 10%	75	4.6
MS1307-470K	47 $\pm$ 10%	82	4.2
MS1307-560K	56 $\pm$ 10%	95	3.8
MS1307-680K	68 $\pm$ 10%	120	3.5
MS1307-820K	82 $\pm$ 10%	140	3.2
MS1307-101K	100 $\pm$ 10%	180	3.0
MS1307-121K	120 $\pm$ 10%	210	2.8
MS1307-151K	150 $\pm$ 10%	250	2.6
MS1307-181K	180 $\pm$ 10%	280	2.3
MS1307-221K	220 $\pm$ 10%	360	2.1
MS1307-271K	270 $\pm$ 10%	410	1.8
MS1307-331K	330 $\pm$ 10%	520	1.6
MS1307-391K	390 $\pm$ 10%	660	1.5
MS1307-471K	470 $\pm$ 10%	800	1.4
MS1307-561K	560 $\pm$ 10%	960	1.3
MS1307-681K	680 $\pm$ 10%	1200	1.2
MS1307-821K	820 $\pm$ 10%	1500	1.1
MS1307-102K	1000 $\pm$ 10%	1700	1.0



Features

- Core Material: Ferrite
- High rated current and low DCR
- RoHS, Halogen Free and REACH compliance

Package

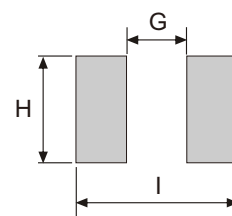
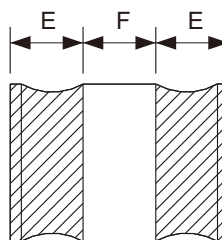
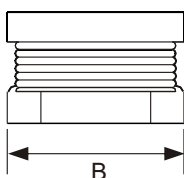
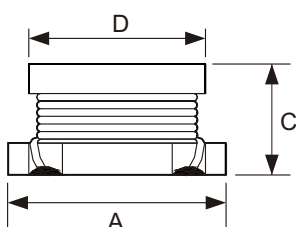
- MSE1210 - 3000 PCS/Reel
- MSE1812 - 2000 PCS/Reel
- MSE2220 - 1000 PCS/Reel

General Specifications

- Storage temp range: -40°C to +80°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A ± 0.3	B ± 0.3	C ± 0.3	D ± 0.2	E Ref	F Ref	G ± 0.2	H ± 0.2	I ± 0.2
MSE1210	3.2	2.5	2.0	2.5	1.1	1.0	0.8	2.7	4.4
MSE1812	4.5	3.2	2.6	3.2	1.7	1.2	1.0	3.5	5.9
MSE2220	5.7	5.0	4.7	5.0	1.9	2.0	1.8	5.5	7.5

► Electrical Characteristics For MSE1210 Series

Part Number	L [μH]	L Test Freq [MHz]	Q Test Freq [MHz]	Q (min)	SRF [MHz]	DCR(max) [Ω]	IDC(max) [mA]
MSE1210-1R0M	1.0	1	1	20	100	0.5	445
MSE1210-1R2M	1.2	1	1	20	100	0.6	425
MSE1210-1R5M	1.5	1	1	20	75	0.6	400
MSE1210-1R8M	1.8	1	1	20	60	0.7	390
MSE1210-2R2M	2.2	1	1	20	50	0.8	370
MSE1210-2R7M	2.7	1	1	20	43	0.9	320
MSE1210-3R3M	3.3	1	1	20	38	1.0	300
MSE1210-3R9M	3.9	1	1	20	35	1.1	290
MSE1210-4R7M	4.7	1	1	20	31	1.2	270
MSE1210-5R6M	5.6	1	1	20	28	1.3	250
MSE1210-6R8M	6.8	1	1	20	25	1.5	240
MSE1210-8R2M	8.2	1	1	20	23	1.6	225
MSE1210-100K	10	1	1	35	20	1.8	190
MSE1210-120K	12	1	1	35	18	2.0	180
MSE1210-150K	15	1	1	35	16	2.2	170
MSE1210-180K	18	1	1	35	15	2.5	165
MSE1210-220K	22	1	1	35	14	2.8	150
MSE1210-270K	27	1	1	35	13	3.1	125
MSE1210-330K	33	1	1	40	12	3.5	115
MSE1210-390K	39	1	1	40	11	3.9	110
MSE1210-470K	47	1	1	40	11	4.3	100
MSE1210-560K	56	1	1	40	10	4.9	85
MSE1210-680K	68	1	1	40	9	5.5	80
MSE1210-820K	82	1	1	40	8.5	6.2	70
MSE1210-101K	100	1	0.796	40	8.0	7.1	80
MSE1210-121K	120	1	0.796	40	7.5	8.0	75
MSE1210-151K	150	1	0.796	40	7	9.3	70
MSE1210-181K	180	1	0.796	40	6	10.2	65
MSE1210-221K	220	1	0.796	40	6	11.8	65
MSE1210-271K	270	1	0.796	40	5	12.5	65
MSE1210-331K	330	1	0.796	40	5	13	65
MSE1210-391K	390	1	0.796	50	5	22	50
MSE1210-471K	470	1	0.796	50	5	25	45
MSE1210-561K	560	1	0.796	50	5	28	40

► Electrical Characteristics For MSE1812 Series

Part Number	L [μH]	L Test Freq [MHz]	Q Test Freq [MHz]	Q (min)	SRF [MHz]	DCR(max) [Ω]	IDC(max) [mA]
MSE1812-1R0M	1.0	1	1	20	120	0.20	550
MSE1812-1R2M	1.2	1	1	20	100	0.25	530
MSE1812-1R5M	1.5	1	1	20	85	0.28	500
MSE1812-1R8M	1.8	1	1	20	75	0.30	500
MSE1812-2R2M	2.2	1	1	20	62	0.30	500
MSE1812-2R7M	2.7	1	1	20	53	0.32	500
MSE1812-3R3M	3.3	1	1	20	47	0.35	500
MSE1812-3R9M	3.9	1	1	20	42	0.38	500
MSE1812-4R7M	4.7	1	1	30	38	0.40	500
MSE1812-5R6M	5.6	1	1	30	35	0.47	500
MSE1812-6R8M	6.8	1	1	30	32	0.50	500
MSE1812-8R2M	8.2	1	1	30	28	0.56	500
MSE1812-100K	10	1	1	35	24	0.56	450
MSE1812-120K	12	1	1	35	22	0.62	450
MSE1812-150K	15	1	1	35	19	0.73	390
MSE1812-180K	18	1	1	35	17	0.82	370
MSE1812-220K	22	1	1	35	15	0.94	350
MSE1812-270K	27	1	1	35	14	1.1	330
MSE1812-330K	33	1	1	35	12	1.2	310
MSE1812-390K	39	1	1	35	11	1.4	280
MSE1812-470K	47	1	1	35	10	1.5	250
MSE1812-560K	56	1	1	35	9.5	1.7	225
MSE1812-680K	68	1	1	35	8.5	1.9	200
MSE1812-820K	82	1	1	35	7.5	2.2	185
MSE1812-101K	100	1	0.796	35	6.8	2.5	175
MSE1812-121K	120	1	0.796	40	6.2	3.0	165
MSE1812-151K	150	1	0.796	40	5.5	3.7	155
MSE1812-181K	180	1	0.796	40	5.0	4.5	135
MSE1812-221K	220	1	0.796	40	4.5	5.4	125
MSE1812-271K	270	1	0.796	40	4.0	6.8	115
MSE1812-331K	330	1	0.796	40	3.7	8.2	100
MSE1812-391K	390	1	0.796	40	3.3	9.7	90
MSE1812-471K	470	1	0.796	40	3.0	11.8	80
MSE1812-561K	560	1	0.796	40	2.7	14.5	70
MSE1812-681K	680	1	0.796	40	2.5	17.0	65
MSE1812-821K	820	1	0.796	40	2.2	20.5	60
MSE1812-102K	1000	1	0.252	40	2.0	25.0	50

► Electrical Characteristics For MSE2220 Series

Part Number	L [μH]	L Test Freq	SRF [MHz]	DCR(max) [Ω]	IDC(max) [A]
MSE2220-1R0M	1.0	1MHz	150	0.03	4.0
MSE2220-2R2M	2.2	1MHz	80	0.05	3.2
MSE2220-3R3M	3.3	1MHz	40	0.06	2.9
MSE2220-4R7M	4.7	1MHz	30	0.07	2.7
MSE2220-6R8M	6.8	1MHz	25	0.12	2.0
MSE2220-100K	10	1MHz	20	0.13	1.7
MSE2220-150K	15	1MHz	17	0.23	1.4
MSE2220-220K	22	1MHz	15	0.29	1.2
MSE2220-330K	33	1MHz	12	0.46	0.9
MSE2220-470K	47	1MHz	10	0.58	0.8
MSE2220-680K	68	1MHz	7.6	0.96	0.64
MSE2220-101K	100	100KHz	6.5	1.25	0.56
MSE2220-151K	150	100KHz	5.0	2.70	0.42
MSE2220-221K	220	100KHz	4.0	3.40	0.32
MSE2220-331K	330	100KHz	3.1	6.20	0.27
MSE2220-471K	470	100KHz	2.4	7.65	0.24
MSE2220-681K	680	100KHz	1.9	11.3	0.19
MSE2220-102K	1000	10KHz	1.7	14.4	0.15
MSE2220-152K	1500	10KHz	1.2	30.1	0.10
MSE2220-222K	2200	10KHz	1.1	45.0	0.09
MSE2220-332K	3300	10KHz	1.0	50.0	0.08
MSE2220-472K	4700	10KHz	0.8	61.0	0.07
MSE2220-682K	6800	10KHz	0.7	100	0.06



Features

- High energy storage and very low DCR
- Magnetically unshielded
- Ferrite core, Ceramic Base

Package

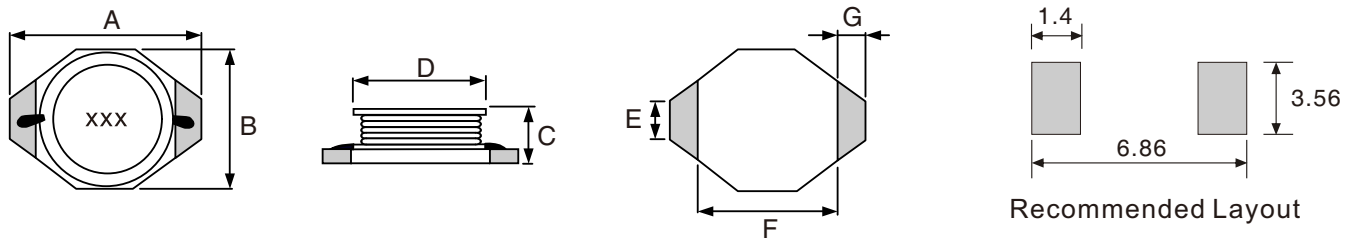
- MSP1608 - 2500 PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A (max)	B (max)	C (max)	D (±0.3)	E (Ref)	F (Ref)	G (Ref)
MSP1608	6.60	4.45	2.92	3.94	1.27	4.32	1.02

Electrical Characteristics For MSP1608 Series

Part Number	Inductance [μH]	DCR(max) [mΩ]	SRF(Typ) [MHz]	Isat (max) [A]	Irms (max) [A]
MSP1608-1R0M	1.0 ±20%	50	130	2.9	2.9
MSP1608-1R5M	1.5 ±20%	50	115	2.6	2.8
MSP1608-2R2M	2.2 ±20%	70	100	2.3	2.4
MSP1608-2R7M	2.7 ±20%	80	75	2.1	2.1
MSP1608-3R3M	3.3 ±20%	80	70	2.0	2.0
MSP1608-4R7M	4.7 ±20%	90	50	1.5	1.5
MSP1608-6R8M	6.8 ±20%	130	45	1.2	1.4
MSP1608-8R2M	8.2 ±20%	160	40	1.15	1.3
MSP1608-100M	10 ±20%	160	35	1.10	1.2
MSP1608-150M	15 ±20%	230	30	0.90	1.1
MSP1608-220M	22 ±20%	370	20	0.70	0.8
MSP1608-330M	33 ±20%	510	15	0.58	0.6
MSP1608-470M	47 ±20%	640	14	0.50	0.5
MSP1608-680M	68 ±20%	860	11	0.40	0.4
MSP1608-101M	100 ±20%	1270	9	0.31	0.3
MSP1608-151M	150 ±20%	2000	6	0.27	0.25
MSP1608-221M	220 ±20%	3100	5.5	0.22	0.20
MSP1608-331M	330 ±20%	3800	5	0.18	0.16
MSP1608-471M	470 ±20%	5060	4	0.16	0.15
MSP1608-681M	680 ±20%	9200	3	0.14	0.12
MSP1608-102M	1000 ±20%	13800	2	0.10	0.07

- Inductance tested at 100kHz
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 10% from its value without current



Features

- High energy storage and very low DCR
- Magnetically unshielded
- Ferrite core

Package

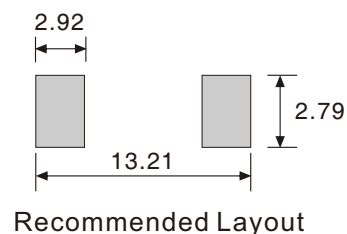
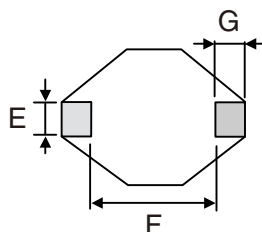
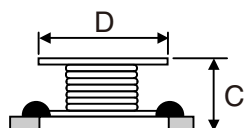
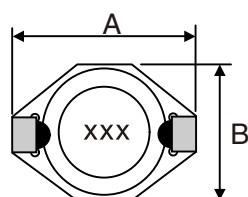
- MSP3308 - 1000 PCS/Reel
- MSP3316 - 1000 PCS/Reel
- MSP3340 - 250 PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A (max)	B (max)	C (max)	D (±0.3)	E (Ref)	F (Ref)	G (Ref)
MSP3308	12.95	9.40	3.00	8.38	2.54	7.62	2.54
MSP3316	12.95	9.40	5.21	8.38	2.54	7.62	2.54
MSP3340	12.95	9.40	11.43	8.38	2.54	7.62	2.54

Electrical Characteristics For MSP3308 Series

Part Number	Inductance [μH]	DCR(max) [mΩ]	SRF(Typ) [MHz]	Isat (max) [A]	Irms (max) [A]
MSP3308-100M	10 ±20%	110	35	2.4	2.0
MSP3308-150M	15 ±20%	150	33	2.0	1.5
MSP3308-220M	22 ±20%	230	25	1.6	1.3
MSP3308-330M	33 ±20%	300	19	1.4	1.1
MSP3308-470M	47 ±20%	390	14	1.0	0.8
MSP3308-680M	68 ±20%	660	12	0.9	0.7
MSP3308-101M	100 ±20%	840	10	0.7	0.6
MSP3308-151M	150 ±20%	1200	8	0.6	0.5
MSP3308-221M	220 ±20%	1900	6	0.5	0.4
MSP3308-331M	330 ±20%	2700	6	0.4	0.3
MSP3308-471M	470 ±20%	4000	4	0.3	0.2
MSP3308-681M	680 ±20%	5300	3	0.2	0.1
MSP3308-102M	1000 ±20%	8400	2.5	0.1	0.05

► Electrical Characteristics For MSP3316 Series

Part Number	Inductance [μH]	DCR(max) [mΩ]	SRF(Typ) [MHz]	Isat (max) [A]	Irms (max) [A]
MSP3316-1R0M	1.0 ±20%	9	100	9.0	6.8
MSP3316-1R5M	1.5 ±20%	10	90	8.0	6.4
MSP3316-2R2M	2.2 ±20%	12	80	7.0	6.1
MSP3316-3R3M	3.3 ±20%	15	65	6.4	5.4
MSP3316-4R7M	4.7 ±20%	18	45	5.4	4.8
MSP3316-6R8M	6.8 ±20%	27	38	4.6	4.4
MSP3316-100M	10 ±20%	38	30	3.8	3.9
MSP3316-150M	15 ±20%	46	27	3.0	3.1
MSP3316-220M	22 ±20%	85	19	2.6	2.7
MSP3316-330M	33 ±20%	100	15	2.0	2.1
MSP3316-470M	47 ±20%	140	12	1.6	1.8
MSP3316-680M	68 ±20%	200	10	1.4	1.5
MSP3316-101M	100 ±20%	280	9	1.2	1.3
MSP3316-151M	150 ±20%	400	6	1.0	1.0
MSP3316-221M	220 ±20%	610	5	0.8	0.8
MSP3316-331M	300 ±20%	1020	4.5	0.6	0.6
MSP3316-471M	470 ±20%	1270	3.5	0.5	0.5
MSP3316-681M	680 ±20%	2020	2.5	0.4	0.4
MSP3316-102M	1000 ±20%	3000	2.0	0.3	0.3

► Electrical Characteristics For MSP3340 Series

Part Number	Inductance [μH]	DCR(max) [mΩ]	SRF(Typ) [MHz]	Isat (max) [A]	Irms (max) [A]
MSP3340-100M	10 ±20%	40	35	8.0	3.5
MSP3340-150M	15 ±20%	50	18	7.0	3.0
MSP3340-220M	22 ±20%	66	13	5.5	2.5
MSP3340-330M	33 ±20%	80	11	4.0	2.0
MSP3340-470M	47 ±20%	110	9.0	3.8	1.6
MSP3340-680M	68 ±20%	170	7.0	3.0	1.2
MSP3340-101M	100 ±20%	220	5.5	2.5	1.2
MSP3340-151M	150 ±20%	340	4.5	2.0	0.9
MSP3340-221M	220 ±20%	440	3.5	1.6	0.7
MSP3340-331M	330 ±20%	700	3.0	1.2	0.6
MSP3340-471M	470 ±20%	950	2.5	1.0	0.3
MSP3340-681M	680 ±20%	1200	2.0	1.0	0.2
MSP3340-102M	1000 ±20%	2000	1.5	0.8	0.1

- Inductance tested at 100kHz
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 10% from its value without current



Features

- Excellent current handling
- Low DCR keeps power losses to a minimum
- Ferrite core

Package

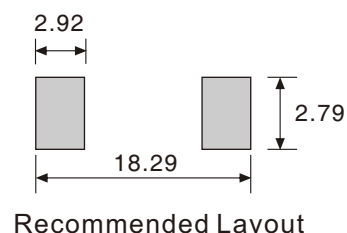
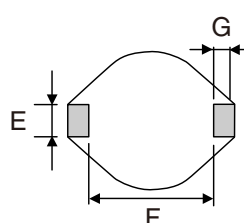
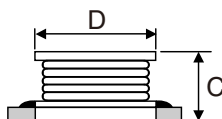
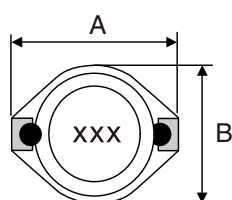
- MSP5022 - 500 PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A (max)	B (max)	C (max)	D (±0.3)	E (Ref)	F (Ref)	G (Ref)
MSP5022	18.54	15.24	7.11	12.7	2.54	12.65	2.54

Electrical Characteristics For MSP5022 Series

Part Number	Inductance [μH]	DCR(max) [mΩ]	SRF(Typ) [MHz]	Isat (max) [A]	Irms (max) [A]
MSP5022-1R0M	1.0 ±20%	9	80	20.0	8.6
MSP5022-2R2M	2.2 ±20%	14	80	16.0	7.1
MSP5022-3R3M	3.3 ±20%	20	60	14.0	6.2
MSP5022-5R6M	5.6 ±20%	24	40	12.0	5.3
MSP5022-100M	10 ±20%	31	30	10.0	4.3
MSP5022-150M	15 ±20%	36	22	8.0	4.0
MSP5022-220M	22 ±20%	47	20	7.0	3.5
MSP5022-330M	33 ±20%	66	15	5.5	3.0
MSP5022-470M	47 ±20%	95	9	4.5	2.6
MSP5022-680M	68 ±20%	130	8	3.5	2.3
MSP5022-101M	100 ±20%	190	7	3.0	1.8
MSP5022-151M	150 ±20%	250	6	2.6	1.5
MSP5022-221M	220 ±20%	380	5	2.4	1.2
MSP5022-331M	330 ±20%	560	4	1.9	1.0
MSP5022-471M	470 ±20%	850	3	1.4	0.82
MSP5022-681M	680 ±20%	1100	2.5	1.2	0.72
MSP5022-102M	1000 ±20%	1800	2	1.0	0.56

- Inductance tested at 100kHz
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 10% from its value without current



Features

- Soldered self-leaded construction
- High rated current and low DCR
- Core Material: Ferrite
- RoHS, Halogen Free and REACH compliance

Package

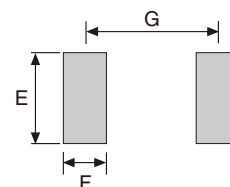
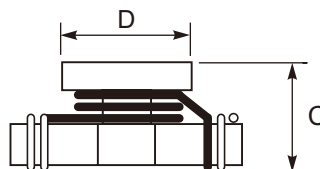
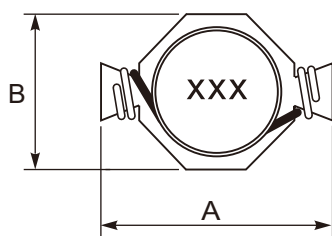
- MSG1813HC - 1000 PCS/Reel

General Specifications

- Storage temp range: -40°C to +80°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A (max)	B (max)	C (max)	D (Ref)	E (Ref)	F (Ref)	G (Ref)
MSG1813HC	8.9	6.1	5.0	4.8	4.06	1.91	6.98

► Electrical Characteristics For MSG1813HC Series

Part Number	Inductance [μH]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSG1813HC-R18M	0.18 ±20%	0.003	14.0	10.0
MSG1813HC-R33M	0.33 ±20%	0.004	10.0	7.0
MSG1813HC-R56M	0.56 ±20%	0.010	7.7	6.0
MSG1813HC-1R2M	1.2 ±20%	0.017	5.3	4.4
MSG1813HC-2R2M	2.2 ±20%	0.035	3.5	3.1
MSG1813HC-3R3M	3.3 ±20%	0.040	3.0	2.7
MSG1813HC-4R7M	4.7 ±20%	0.054	2.6	2.2
MSG1813HC-6R8M	6.8 ±20%	0.080	2.2	1.8
MSG1813HC-100M	10 ±20%	0.111	1.9	1.5
MSG1813HC-150M	15 ±20%	0.170	1.5	1.2
MSG1813HC-220M	22 ±20%	0.250	1.2	1.0
MSG1813HC-330M	33 ±20%	0.350	0.99	0.82
MSG1813HC-470M	47 ±20%	0.470	0.87	0.72

- Inductance tested at 100kHz, 0.25Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Soldered self-leaded construction
- High rated current and low DCR
- Core Material: Ferrite
- RoHS, Halogen Free and REACH compliance

Package

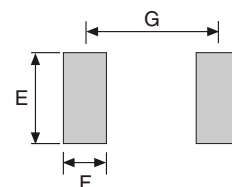
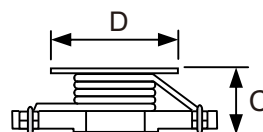
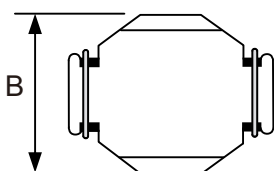
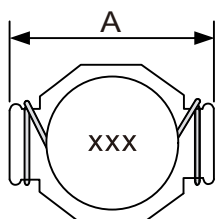
- MSG3316HC - 1000 PCS/Reel

General Specifications

- Storage temp range: -40°C to +80°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A (max)	B (max)	C (max)	D (Ref)	E (Ref)	F (Ref)	G (Ref)
MSG3316HC	13.2	9.9	6.4	8.4	4.06	1.52	10.16

► Electrical Characteristics For MSG3316HC Series

Part Number	Inductance [μH]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSG3316HC-R33M	0.33 ±20%	0.002	20.0	16.0
MSG3316HC-R68M	0.68 ±20%	0.005	13.0	12.0
MSG3316HC-1R0M	1.0 ±20%	0.006	11.0	10.0
MSG3316HC-1R5M	1.5 ±20%	0.008	9.0	9.0
MSG3316HC-2R2M	2.2 ±20%	0.011	7.8	7.4
MSG3316HC-2R7M	2.7 ±20%	0.012	7.0	6.6
MSG3316HC-3R3M	3.3 ±20%	0.014	6.4	5.9
MSG3316HC-4R7M	4.7 ±20%	0.018	5.4	4.8

- Inductance tested at 100kHz, 0.25Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetically Shielded Structure
- High saturation current
- Suitable for surface mounting

Application

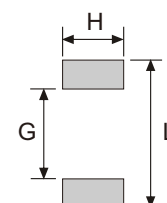
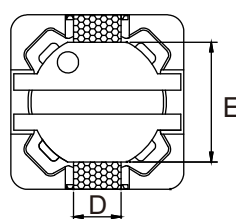
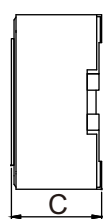
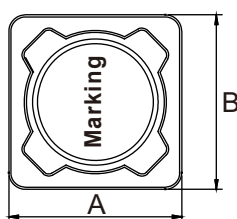
- Communication equipment
- DC/DC conversion
- DC switching power supply circuit

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



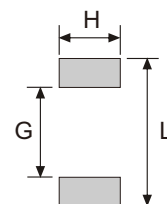
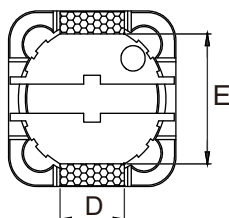
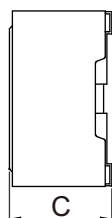
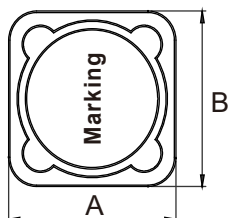
Shape and Dimensions (Unit:mm)



Recommended Layout

Type	A ± 0.3	B ± 0.3	C ± 0.3	D (Ref)	E (Ref)	G	H	L
MSRH73	7.3	7.3	3.4	2.0	5.0	4.8	2.4	8
MSRH74	7.3	7.3	4.5	2.0	5.0	4.8	2.4	8

Shape and Dimensions (Unit:mm)



Recommended Layout

Type	A ± 0.5	B ± 0.5	C (max)	D (Ref)	E (Ref)	G	H	L
MSRH124	12.0	12.0	4.8	5.0	7.6	7.0	5.4	12.8
MSRH125	12.0	12.0	6.0	5.0	7.6	7.0	5.4	12.8
MSRH127	12.0	12.0	8.0	5.0	7.6	7.0	5.4	12.8
MSRH129	12.0	12.0	10.0	5.0	7.6	7.0	5.4	12.8

Electrical Characteristics For MSRH73 Series

Part Number	Inductance [uH]	Test Freq [KHz]	DCR(max) [Ω]	Rated Current Idc [A]
MSRH73-1R0N	1.0 ±30%	100	0.012	5.50
MSRH73-2R2N	2.2 ±30%	100	0.035	2.50
MSRH73-3R3N	3.3 ±30%	100	0.038	2.00
MSRH73-4R7N	4.7 ±30%	100	0.040	1.82
MSRH73-5R6N	5.6 ±30%	100	0.057	1.82
MSRH73-6R8N	6.8 ±30%	100	0.058	1.70
MSRH73-100M	10 ±20%	100	0.072	1.68
MSRH73-120M	12 ±20%	100	0.098	1.52
MSRH73-150M	15 ±20%	100	0.130	1.33
MSRH73-180M	18 ±20%	100	0.140	1.20
MSRH73-220M	22 ±20%	100	0.190	1.07
MSRH73-270M	27 ±20%	100	0.210	0.96
MSRH73-330M	33 ±20%	100	0.240	0.91
MSRH73-390M	39 ±20%	100	0.320	0.77
MSRH73-470M	47 ±20%	100	0.360	0.76
MSRH73-560M	56 ±20%	100	0.470	0.68
MSRH73-680M	68 ±20%	100	0.520	0.61
MSRH73-820M	82 ±20%	100	0.690	0.57
MSRH73-101M	100 ±20%	100	0.790	0.50
MSRH73-121M	120 ±20%	100	0.890	0.49
MSRH73-151M	150 ±20%	100	1.270	0.43
MSRH73-181M	180 ±20%	100	1.450	0.39
MSRH73-221M	220 ±20%	100	1.650	0.35
MSRH73-271M	270 ±20%	100	2.310	0.32
MSRH73-331M	330 ±20%	100	2.620	0.28
MSRH73-391M	390 ±20%	100	2.940	0.26
MSRH73-471M	470 ±20%	100	4.180	0.24
MSRH73-561M	560 ±20%	100	4.670	0.22
MSRH73-681M	680 ±20%	100	5.730	0.19
MSRH73-102M	1000 ±20%	1	9.440	0.16

Electrical Characteristics For MSRH74 Series

Part Number	Inductance [uH]	Test Freq [KHz]	DCR(max) [Ω]	Rated Current Idc [A]
MSRH74-1R0N	1.0 ±30%	100	0.022	6.00
MSRH74-2R2N	2.2 ±30%	100	0.030	3.00
MSRH74-3R3N	3.3 ±30%	100	0.035	2.80
MSRH74-4R7N	4.7 ±30%	100	0.040	2.50
MSRH74-6R8N	6.8 ±30%	100	0.050	2.10
MSRH74-100M	10 ±20%	100	0.049	1.84
MSRH74-120M	12 ±20%	100	0.058	1.71
MSRH74-150M	15 ±20%	100	0.081	1.47
MSRH74-180M	18 ±20%	100	0.091	1.31
MSRH74-220M	22 ±20%	100	0.110	1.23
MSRH74-270M	27 ±20%	100	0.150	1.12
MSRH74-330M	33 ±20%	100	0.170	0.96
MSRH74-390M	39 ±20%	100	0.230	0.91
MSRH74-470M	47 ±20%	100	0.260	0.88
MSRH74-560M	56 ±20%	100	0.350	0.75
MSRH74-680M	68 ±20%	100	0.380	0.69
MSRH74-820M	82 ±20%	100	0.430	0.61
MSRH74-101M	100 ±20%	100	0.610	0.60
MSRH74-121M	120 ±20%	100	0.660	0.52
MSRH74-151M	150 ±20%	100	0.880	0.46
MSRH74-181M	180 ±20%	100	0.980	0.42
MSRH74-221M	220 ±20%	100	1.170	0.36
MSRH74-271M	270 ±20%	100	1.640	0.34
MSRH74-331M	330 ±20%	100	1.860	0.32
MSRH74-391M	390 ±20%	100	2.850	0.29
MSRH74-471M	470 ±20%	100	3.010	0.26
MSRH74-561M	560 ±20%	100	3.620	0.23
MSRH74-681M	680 ±20%	100	4.630	0.22
MSRH74-821M	820 ±20%	100	5.200	0.20
MSRH74-102M	1000 ±20%	1	6.000	0.18

Electrical Characteristics For MSRH124 Series

Part Number	Inductance [uH]	Test Freq [KHz]	DCR(max) [Ω]	Rated Current Idc [A]
MSRH124-1R0N	1.0 ±30%	100	0.012	7.70
MSRH124-2R2N	2.2 ±30%	100	0.014	7.50
MSRH124-3R3N	3.3 ±30%	100	0.015	6.80
MSRH124-3R9N	3.9 ±30%	100	0.018	6.50
MSRH124-4R7N	4.7 ±30%	100	0.018	5.70
MSRH124-6R8N	6.8 ±30%	100	0.023	4.90
MSRH124-8R2N	8.2 ±30%	100	0.026	4.60
MSRH124-100M	10 ±20%	100	0.028	4.50
MSRH124-120M	12 ±20%	100	0.038	4.00
MSRH124-150M	15 ±20%	100	0.050	3.20
MSRH124-180M	18 ±20%	100	0.057	3.10
MSRH124-220M	22 ±20%	100	0.066	2.90
MSRH124-270M	27 ±20%	100	0.080	2.80
MSRH124-330M	33 ±20%	100	0.097	2.70
MSRH124-390M	39 ±20%	100	0.132	2.10
MSRH124-470M	47 ±20%	100	0.160	1.90
MSRH124-560M	56 ±20%	100	0.190	1.80
MSRH124-680M	68 ±20%	100	0.220	1.50
MSRH124-820M	82 ±20%	100	0.260	1.30
MSRH124-101M	100 ±20%	100	0.308	1.20
MSRH124-121M	120 ±20%	100	0.380	1.10
MSRH124-151M	150 ±20%	100	0.530	0.95
MSRH124-181M	180 ±20%	100	0.620	0.85
MSRH124-221M	220 ±20%	100	0.700	0.80
MSRH124-271M	270 ±20%	100	0.870	0.60
MSRH124-331M	330 ±20%	100	0.990	0.50
MSRH124-471M	470 ±20%	100	1.300	0.40

Electrical Characteristics For MSRH125 Series

Part Number	Inductance [uH]	Test Freq [KHz]	DCR(max) [Ω]	Rated Current Idc [A]
MSRH125-1R0N	1.0 ±30%	100	0.010	8.00
MSRH125-2R2N	2.2 ±30%	100	0.014	7.80
MSRH125-3R3N	3.3 ±30%	100	0.017	6.80
MSRH125-4R7N	4.7 ±30%	100	0.020	5.60
MSRH125-5R8N	5.8 ±30%	100	0.021	5.20
MSRH125-8R2N	8.2 ±30%	100	0.025	4.40
MSRH125-100M	10 ±20%	100	0.025	4.00
MSRH125-120M	12 ±20%	100	0.027	3.50
MSRH125-150M	15 ±20%	100	0.030	3.30
MSRH125-180M	18 ±20%	100	0.034	3.00
MSRH125-220M	22 ±20%	100	0.036	2.80
MSRH125-270M	27 ±20%	100	0.051	2.30
MSRH125-330M	33 ±20%	100	0.057	2.10
MSRH125-390M	39 ±20%	100	0.068	2.00
MSRH125-470M	47 ±20%	100	0.075	1.80
MSRH125-560M	56 ±20%	100	0.110	1.70
MSRH125-680M	68 ±20%	100	0.120	1.50
MSRH125-820M	82 ±20%	100	0.140	1.40
MSRH125-101M	100 ±20%	100	0.160	1.30
MSRH125-121M	120 ±20%	100	0.170	1.10
MSRH125-151M	150 ±20%	100	0.230	1.00
MSRH125-181M	180 ±20%	100	0.290	0.90
MSRH125-221M	220 ±20%	100	0.400	0.80
MSRH125-271M	270 ±20%	100	0.460	0.75
MSRH125-331M	330 ±20%	100	0.510	0.68
MSRH125-391M	390 ±20%	100	0.690	0.65
MSRH125-471M	470 ±20%	100	0.770	0.58
MSRH125-561M	560 ±20%	100	0.860	0.54
MSRH125-681M	680 ±20%	100	1.200	0.48
MSRH125-821M	820 ±20%	100	1.340	0.43
MSRH125-102M	1000 ±20%	1	1.900	0.40

Electrical Characteristics For MSRH127 Series

Part Number	Inductance [uH]	Test Freq [KHz]	DCR(max) [Ω]	Rated Current Idc [A]
MSRH127-1R0N	1.0 ±30%	100	0.007	9.80
MSRH127-1R5N	1.5 ±30%	100	0.010	9.00
MSRH127-2R2N	2.2 ±30%	100	0.012	7.50
MSRH127-3R3N	3.3 ±30%	100	0.015	7.50
MSRH127-4R7N	4.7 ±30%	100	0.016	6.80
MSRH127-5R6N	5.6 ±30%	100	0.018	6.70
MSRH127-6R8N	6.8 ±30%	100	0.020	6.60
MSRH127-8R2N	8.2 ±30%	100	0.020	5.90
MSRH127-100M	10 ±20%	100	0.022	5.40
MSRH127-120M	12 ±20%	100	0.024	4.90
MSRH127-150M	15 ±20%	100	0.024	4.50
MSRH127-180M	18 ±20%	100	0.039	3.90
MSRH127-220M	22 ±20%	100	0.043	3.60
MSRH127-270M	27 ±20%	100	0.046	3.40
MSRH127-330M	33 ±20%	100	0.065	3.00
MSRH127-390M	39 ±20%	100	0.073	2.75
MSRH127-470M	47 ±20%	100	0.100	2.50
MSRH127-560M	56 ±20%	100	0.110	2.35
MSRH127-680M	68 ±20%	100	0.140	2.10
MSRH127-820M	82 ±20%	100	0.160	1.95
MSRH127-101M	100 ±20%	100	0.220	1.70
MSRH127-121M	120 ±20%	100	0.250	1.60
MSRH127-151M	150 ±20%	100	0.280	1.42
MSRH127-181M	180 ±20%	100	0.350	1.30
MSRH127-221M	220 ±20%	100	0.390	1.16
MSRH127-271M	270 ±20%	100	0.560	1.06
MSRH127-331M	330 ±20%	100	0.640	0.95
MSRH127-391M	390 ±20%	100	0.700	0.88
MSRH127-471M	470 ±20%	100	0.980	0.79
MSRH127-561M	560 ±20%	100	1.070	0.73
MSRH127-681M	680 ±20%	100	1.460	0.67
MSRH127-821M	820 ±20%	100	1.640	0.60
MSRH127-102M	1000 ±20%	1	1.820	0.55
MSRH127-152M	1500 ±20%	1	2.400	0.50
MSRH127-182M	1800 ±20%	1	2.800	0.40
MSRH127-222M	2200 ±20%	1	2.950	0.30

Electrical Characteristics For MSRH129 Series

Part Number	Inductance [uH]	Test Freq [KHz]	DCR(max) [mΩ]	Rated Current Idc [A]
MSRH129-1R0N	1.0 ±30%	100	6	11.00
MSRH129-1R8N	1.8 ±30%	100	8	10.20
MSRH129-2R2N	2.2 ±30%	100	9	9.50
MSRH129-3R3N	3.3 ±30%	100	10	9.00
MSRH129-4R7N	4.7 ±30%	100	12	8.50
MSRH129-5R6N	5.6 ±30%	100	14	8.00
MSRH129-6R8N	6.8 ±30%	100	15	7.90
MSRH129-8R2N	8.2 ±30%	100	17	7.30
MSRH129-100M	10 ±20%	100	18	6.50
MSRH129-120M	12 ±20%	100	22	6.30
MSRH129-150M	15 ±20%	100	32	5.80
MSRH129-180M	18 ±20%	100	35	5.50
MSRH129-220M	22 ±20%	100	38	5.20
MSRH129-270M	27 ±20%	100	40	5.00
MSRH129-330M	33 ±20%	100	52	4.40
MSRH129-390M	39 ±20%	100	66	4.20
MSRH129-470M	47 ±20%	100	72	3.80
MSRH129-560M	56 ±20%	100	90	3.40
MSRH129-680M	68 ±20%	100	102	3.00
MSRH129-820M	82 ±20%	100	112	2.80
MSRH129-101M	100 ±20%	100	135	2.50
MSRH129-121M	120 ±20%	100	170	2.30
MSRH129-151M	150 ±20%	100	190	2.20
MSRH129-181M	180 ±20%	100	250	1.90
MSRH129-221M	220 ±20%	100	315	1.70
MSRH129-271M	270 ±20%	100	410	1.50
MSRH129-331M	330 ±20%	100	450	1.40
MSRH129-391M	390 ±20%	100	600	1.30
MSRH129-471M	470 ±20%	100	820	1.20
MSRH129-561M	560 ±20%	100	900	1.10
MSRH129-681M	680 ±20%	100	1200	1.00
MSRH129-821M	820 ±20%	100	1320	0.85
MSRH129-102M	1000 ±20%	1	1350	0.78
MSRH129-122M	1200 ±20%	1	1400	0.75
MSRH129-222M	2200 ±20%	1	2260	0.69

- Rated Current (Idc): DC current at which cause a 20% inductance reduction from the initial value or inductor surface temperature to rise by 40°C rise from 25°C



Features

- Magnetically shielded construction
- Large Current and Low DCR

Package

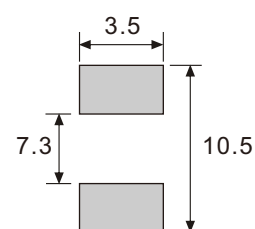
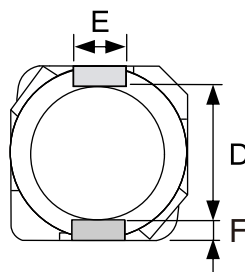
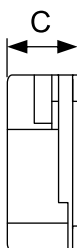
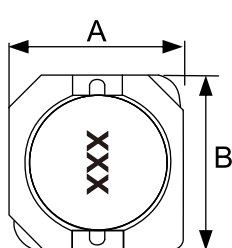
- MSRH103 - 1000 PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout

Type	A (max)	B (max)	C (max)	D (±0.3)	E (Ref)	F (Ref)
MSRH103	10.3	10.5	3.1	7.7	3.0	1.2

Electrical Characteristics For MSRH103 Series

Part Number	Inductance [μH]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSRH103-100M	10	0.058	2.70	2.75
MSRH103-120M	12	0.072	2.25	2.48
MSRH103-150M	15	0.087	2.22	2.24
MSRH103-180M	18	0.116	1.90	2.00
MSRH103-220M	22	0.145	1.78	1.80
MSRH103-270M	27	0.176	1.63	1.62
MSRH103-330M	33	0.213	1.46	1.46
MSRH103-390M	39	0.269	1.32	1.32
MSRH103-470M	47	0.299	1.18	1.30
MSRH103-560M	56	0.336	1.10	1.08
MSRH103-680M	68	0.451	1.04	1.00
MSRH103-820M	82	0.514	0.94	0.98
MSRH103-101M	100	0.700	0.84	0.92
MSRH103-121M	120	0.765	0.76	0.88
MSRH103-151M	150	0.876	0.70	0.73

- Inductance tested at 100kHz
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetically shielded construction
- Large Current and Low DCR

Package

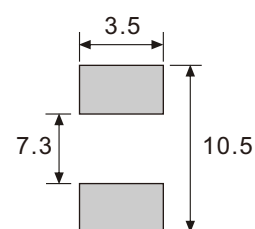
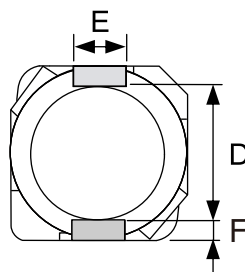
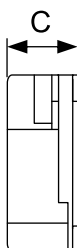
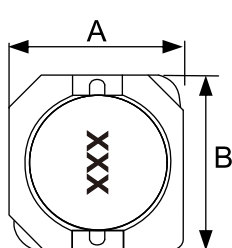
- MSRH104 - 1000 PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout

Type	A (max)	B (max)	C (max)	D (±0.3)	E (Ref)	F (Ref)
MSRH104	10.3	10.5	4.0	7.7	3.0	1.2

Electrical Characteristics For MSRH104 Series

Part Number	Inductance [μH]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSRH104-1R5N	1.3 ±30%	0.008	10.0	10.0
MSRH104-2R5N	2.5 ±30%	0.010	7.50	7.50
MSRH104-3R8N	3.8 ±30%	0.013	6.00	6.00
MSRH104-5R2N	5.2 ±30%	0.022	5.50	5.10
MSRH104-7R0N	7.0 ±30%	0.027	4.80	4.59
MSRH104-100M	10 ±20%	0.035	4.40	4.36
MSRH104-150M	15 ±20%	0.050	3.60	3.10
MSRH104-220M	22 ±20%	0.073	2.90	2.70
MSRH104-330M	33 ±20%	0.093	2.30	2.10
MSRH104-470M	47 ±20%	0.128	2.10	1.90
MSRH104-680M	68 ±20%	0.213	1.50	1.42
MSRH104-101M	100 ±20%	0.304	1.35	1.25
MSRH104-151M	150 ±20%	0.506	1.15	0.93
MSRH104-221M	220 ±20%	0.756	0.92	0.70
MSRH104-331M	330 ±20%	1.090	0.70	0.63

- Inductance tested at 100kHz
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetically shielded construction
- Large Current and Low DCR

Package

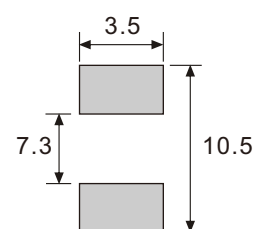
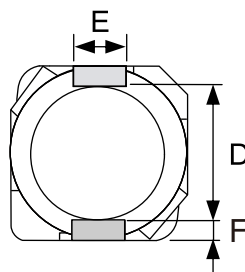
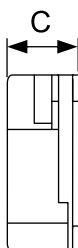
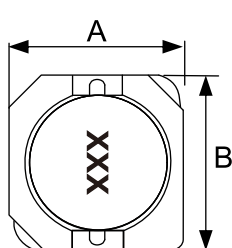
- MSRH105 - 800 PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout

Type	A (max)	B (max)	C (max)	D (±0.3)	E (Ref)	F (Ref)
MSRH105	10.3	10.5	5.1	7.7	3.0	1.2

Electrical Characteristics For MSRH105 Series

Part Number	Inductance [μH]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSRH105-6R8N	6.8 ±30%	0.018	5.50	6.20
MSRH105-100M	10 ±20%	0.026	4.45	4.50
MSRH105-120M	12 ±20%	0.033	4.00	4.00
MSRH105-150M	15 ±20%	0.041	3.60	3.80
MSRH105-180M	18 ±20%	0.046	3.20	3.42
MSRH105-220M	22 ±20%	0.061	2.95	3.07
MSRH105-270M	27 ±20%	0.069	2.70	2.76
MSRH105-330M	33 ±20%	0.084	2.40	2.48
MSRH105-470M	47 ±20%	0.130	2.00	2.11
MSRH105-560M	56 ±20%	0.149	1.90	2.00
MSRH105-680M	68 ±20%	0.201	1.65	1.70
MSRH105-820M	82 ±20%	0.227	1.50	1.53
MSRH105-101M	100 ±20%	0.253	1.35	1.35
MSRH105-121M	120 ±20%	0.303	1.28	1.28
MSRH105-151M	150 ±20%	0.370	1.12	1.15
MSRH105-181M	180 ±20%	0.419	1.04	1.09
MSRH105-221M	220 ±20%	0.500	0.94	0.93
MSRH105-271M	270 ±20%	0.672	0.84	0.85
MSRH105-331M	330 ±20%	0.812	0.75	0.76
MSRH105-471M	470 ±20%	1.300	0.60	0.60
MSRH105-561M	560 ±20%	1.430	0.54	0.57
MSRH105-681M	680 ±20%	1.600	0.52	0.54
MSRH105-821M	820 ±20%	1.770	0.50	0.50
MSRH105-102M	1000 ±20%	1.990	0.48	0.46

- Inductance tested at 100kHz
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetically shielded construction.
- Large Current and Low DCR.

General Specifications

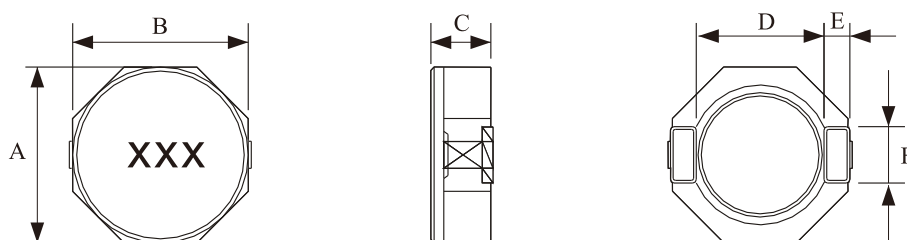
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Applications

- DC-DC converter, LCD television set.
- Notebook, PDA, Mp3, DSC/DVC.
- Portable communication equipments.



► Dimensions & Configurations (Unit:mm)



Type	A(max)	B(max)	C(max)	D(max)	E	F
MSRH8D28	8.3	8.3	3.0	6.3	1.2	2.5
MSRH8D38	8.3	8.3	4.0	6.3	1.2	2.5
MSRH8D43	8.3	8.3	4.5	6.3	1.2	2.5

► Electrical Characteristics For MSRH8D28 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH8D28-2R5N	2.5	100	0.016	5.40
MSRH8D28-3R3N	3.3	100	0.018	4.80
MSRH8D28-4R7N	4.7	100	0.025	4.00
MSRH8D28-6R8N	6.8	100	0.039	3.20
MSRH8D28-100N	10	100	0.047	2.70
MSRH8D28-150N	15	100	0.069	2.20
MSRH8D28-220N	22	100	0.099	1.80
MSRH8D28-330N	33	100	0.156	1.40
MSRH8D28-470N	47	100	0.195	1.25
MSRH8D28-680N	68	100	0.286	0.96
MSRH8D28-101N	100	100	0.430	0.78

► Electrical Characteristics For MSRH8D38 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH8D38-2R0N	2.0	100	0.014	6.4
MSRH8D38-3R9N	3.9	100	0.019	5.0
MSRH8D38-4R7N	4.7	100	0.022	4.6
MSRH8D38-6R8N	6.8	100	0.025	3.2
MSRH8D38-100N	10	100	0.036	3.3
MSRH8D38-150N	15	100	0.053	2.8
MSRH8D38-220N	22	100	0.075	2.3
MSRH8D38-330N	33	100	0.125	1.6
MSRH8D38-470N	47	100	0.150	1.4
MSRH8D38-680N	68	100	0.240	1.2
MSRH8D38-101N	100	100	0.360	0.9

► Electrical Characteristics For MSRH8D43 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH8D43-2R0N	2.0	100	0.014	7.0
MSRH8D43-3R9N	3.9	100	0.019	5.9
MSRH8D43-4R7N	4.7	100	0.022	4.6
MSRH8D43-6R8N	6.8	100	0.025	4.6
MSRH8D43-100N	10	100	0.036	3.6
MSRH8D43-150N	15	100	0.053	2.6
MSRH8D43-220N	22	100	0.075	2.1
MSRH8D43-330N	33	100	0.125	1.6
MSRH8D43-470N	47	100	0.150	1.8
MSRH8D43-680N	68	100	0.240	1.5
MSRH8D43-101N	100	100	0.360	1.3



Features

- Shielded Construction
- Gold plating, Ceramic Base
- Inductance range: 1.0 to 10,000 μ H
- RoHS, Halogen Free and REACH compliance

Package

- MSP1608 - 2500 PCS/Reel

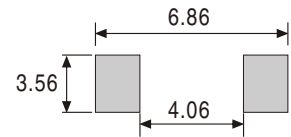
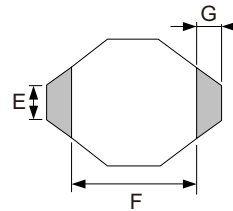
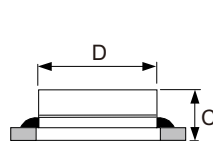
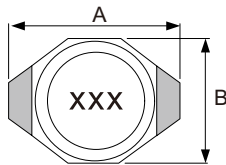
General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)

Recommended Layout



Type	A (max)	B (max)	C (max)	D (±0.3)	E (±0.2)	F (±0.3)	G (±0.2)
MSS1608	6.60	4.45	2.92	3.90	1.27	4.32	1.02

Electrical Characteristics For MSS1608 Series

Part Number	Inductance (μ H)	DCR (Ω) Max.	Isat (A) Typ.	Irms (A) Typ.
MSS1608-1R0M	1.0 $\pm$ 20%	0.040	1.40	3.00
MSS1608-1R5M	1.5 $\pm$ 20%	0.045	0.93	2.80
MSS1608-2R2M	2.2 $\pm$ 20%	0.050	0.92	1.80
MSS1608-3R3M	3.3 $\pm$ 20%	0.055	0.75	1.60
MSS1608-4R7M	4.7 $\pm$ 20%	0.060	0.58	1.40
MSS1608-6R8M	6.8 $\pm$ 20%	0.065	0.58	1.20
MSS1608-100M	10 $\pm$ 20%	0.075	0.37	1.00
MSS1608-150M	15 $\pm$ 20%	0.09	0.31	0.80
MSS1608-220M	22 $\pm$ 20%	0.11	0.30	0.70
MSS1608-330M	33 $\pm$ 20%	0.19	0.24	0.60
MSS1608-470M	47 $\pm$ 20%	0.23	0.24	0.50
MSS1608-680M	68 $\pm$ 20%	0.29	0.17	0.40
MSS1608-101M	100 $\pm$ 20%	0.48	0.13	0.30
MSS1608-151M	150 $\pm$ 20%	0.59	0.10	0.26
MSS1608-221M	220 $\pm$ 20%	0.77	0.10	0.22
MSS1608-331M	330 $\pm$ 20%	1.40	0.07	0.20
MSS1608-471M	470 $\pm$ 20%	1.80	0.06	0.19
MSS1608-681M	680 $\pm$ 20%	2.80	0.055	0.18
MSS1608-102M	1000 $\pm$ 20%	4.20	0.045	0.15
MSS1608-152M	1500 $\pm$ 20%	5.20	0.035	0.12
MSS1608-222M	2200 $\pm$ 20%	8.50	0.028	0.10
MSS1608-332M	3300 $\pm$ 20%	11.0	0.024	0.08
MSS1608-472M	4700 $\pm$ 20%	13.9	0.021	0.06
MSS1608-682M	6800 $\pm$ 20%	25.0	0.019	0.04
MSS1608-103M	10000 $\pm$ 20%	38.2	0.017	0.02

- Inductance tested at 100kHz
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- LCP Plastic Base
- RoHS, Halogen Free and REACH compliance

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

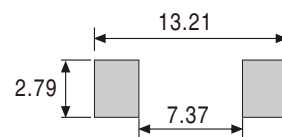
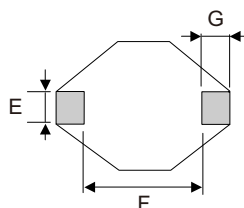
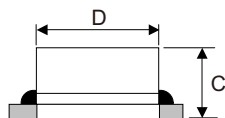
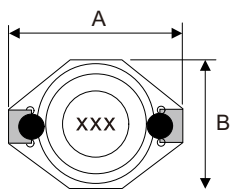
Package

- MSS3316 - 1000 PCS/Reel



Shape and Dimensions (Unit:mm)

Recommended Layout



Type	A (max)	B (max)	C (max)	D (±0.3)	E (±0.2)	F (±0.3)	G (±0.2)
MSS3316	12.95	9.40	5.21	8.38	2.54	7.62	2.54

Electrical Characteristics For MSS3316 Series

Part Number	Inductance [μH]	DCR(max) [Ω]	SRF(Typ) [MHz]	Isat (max) [A]	Irms (max) [A]
MSS3316-1R0M	1.0 ±20%	0.021	140	5.6	5.0
MSS3316-1R5M	1.5 ±20%	0.022	120	5.2	4.5
MSS3316-2R2M	2.2 ±20%	0.032	80	5.0	3.8
MSS3316-3R3M	3.3 ±20%	0.039	70	3.9	3.3
MSS3316-4R7M	4.7 ±20%	0.054	40	3.2	2.7
MSS3316-6R8M	6.8 ±20%	0.075	38	2.8	2.2
MSS3316-100M	10 ±20%	0.101	35	2.4	2.0
MSS3316-150M	15 ±20%	0.150	25	2.0	1.5
MSS3316-220M	22 ±20%	0.207	19	1.6	1.3
MSS3316-330M	33 ±20%	0.334	15	1.4	1.1
MSS3316-470M	47 ±20%	0.472	13	1.0	0.8
MSS3316-680M	68 ±20%	0.660	10	0.9	0.7
MSS3316-101M	100 ±20%	1.110	7	0.8	0.6
MSS3316-151M	150 ±20%	1.550	6	0.6	0.5
MSS3316-221M	220 ±20%	2.000	5	0.5	0.37
MSS3316-102M	1000 ±20%	8.300	2	0.32	0.17

- Inductance tested at 100kHz
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 10% from its value without current



Features

- Shielded Construction
- LCP Plastic Base
- RoHS, Halogen Free and REACH compliance

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

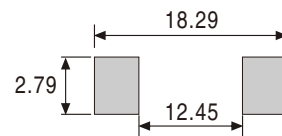
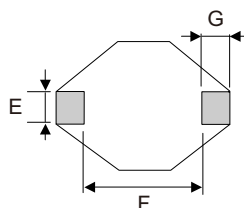
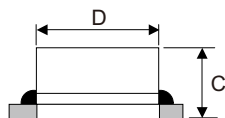
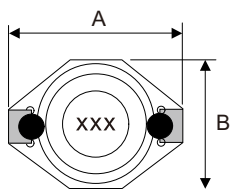
Package

- MSS5022 - 500 PCS/Reel



Shape and Dimensions (Unit:mm)

Recommended Layout



Type	A (max)	B (max)	C (max)	D (±0.3)	E (±0.2)	F (±0.3)	G (±0.2)
MSS5022	18.54	15.24	7.62	12.70	2.54	12.70	2.54

Electrical Characteristics For MSS5022 Series

Part Number	Inductance [μH]	DCR(max) [Ω]	SRF(Typ) [MHz]	Isat (max) [A]	Irms (max) [A]
MSS5022-100M	10 ±20%	0.040	30	8.0	3.9
MSS5022-150M	15 ±20%	0.048	20	7.0	3.4
MSS5022-220M	22 ±20%	0.059	18	6.0	3.1
MSS5022-330M	33 ±20%	0.075	14	5.0	2.8
MSS5022-470M	47 ±20%	0.097	10	4.0	2.4
MSS5022-680M	68 ±20%	0.138	9	3.0	2.0
MSS5022-101M	100 ±20%	0.207	7	2.4	1.7
MSS5022-151M	150 ±20%	0.293	6	2.1	1.3
MSS5022-221M	220 ±20%	0.470	5	1.9	1.1
MSS5022-331M	330 ±20%	0.780	4	1.1	0.86
MSS5022-471M	470 ±20%	1.080	6	1.1	0.73
MSS5022-681M	680 ±20%	1.400	2.5	1.0	0.64
MSS5022-102M	1000 ±20%	2.010	2	0.8	0.53

- Inductance tested at 100kHz
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 10% from its value without current



Features

- 2.5mmx2.0mmx1.05mm Shielded
- Inductance Range: 0.47uH - 22uH
- Current Range: 0.4A - 2.5A
- Small and very Thin inductor

General Specifications

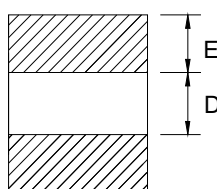
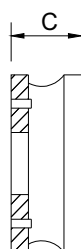
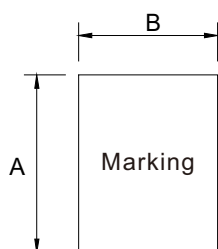
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

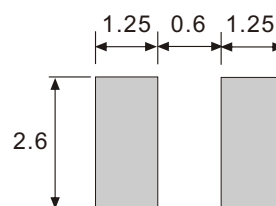
- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



► Dimensions & Configurations (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
SNR252010	2.5±0.3	2.0±0.35	1.05Max	0.9±0.2	0.83±0.2

► Electrical Characteristics For SNR252010 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR252010-R47N	0.47±30%	44	2.50
SNR252010-R68N	0.68±30%	65	2.45
SNR252010-1R0N	1.0±30%	80	2.05
SNR252010-1R5N	1.5±30%	117	1.70
SNR252010-2R2N	2.2±30%	148	1.55
SNR252010-3R3M	3.3±20%	228	1.10
SNR252010-4R7M	4.7±20%	323	0.95
SNR252010-6R8M	6.8±20%	451	0.80
SNR252010-100M	10±20%	584	0.65
SNR252010-150M	15±20%	954	0.45
SNR252010-220M	22±20%	1548	0.40

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- 2.5mmx2.0mmx1.25mm Shielded
- Inductance Range: 0.24uH - 22uH
- Current Range: 0.5A - 4.05A
- Small and very Thin inductor

General Specifications

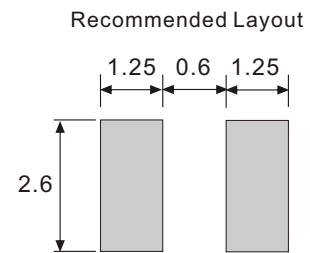
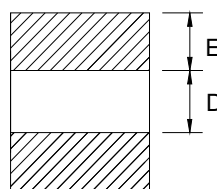
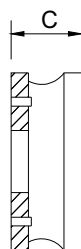
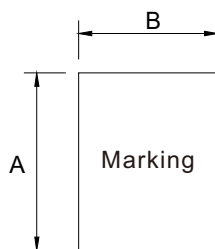
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +125°C
- Resistance to Soldering Heat +260°C for 5-10 Sec.

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR252012	2.5±0.3	2.0±0.35	1.25Max	1.0±0.2	0.8±0.2

Electrical Characteristics For SNR252012 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR252012-R24N	0.24±30%	32	4.05
SNR252012-R47N	0.47±30%	42	3.60
SNR252012-R68N	0.68±30%	55	2.70
SNR252012-1R0N	1.0±30%	63.7	2.45
SNR252012-1R5N	1.5±30%	84	2.05
SNR252012-2R2N	2.2±30%	115.2	1.90
SNR252012-3R3M	3.3±20%	156	1.50
SNR252012-4R7M	4.7±20%	228.8	1.35
SNR252012-6R8M	6.8±20%	325	1.00
SNR252012-100M	10±20%	492	0.75
SNR252012-150M	15±20%	648	0.56
SNR252012-220M	22±20%	1020	0.50

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 47uH
- Rated current up to 1.4A
- Small and very Thin inductor

General Specifications

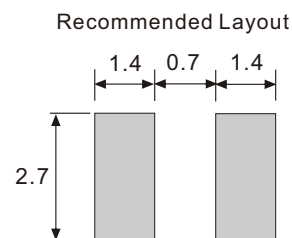
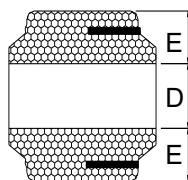
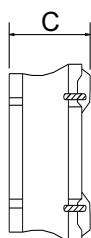
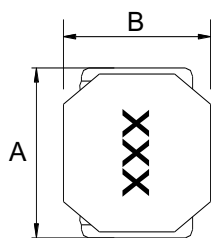
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR3010	3.0±0.2	3.0±0.2	1.2Max	1.2±0.2	0.9±0.2

► Electrical Characteristics For SNR3010 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR3010-1R0N	1.0±30%	85	1.40
SNR3010-1R5N	1.5±30%	104	1.27
SNR3010-2R2N	2.2±30%	143	1.15
SNR3010-3R3M	3.3±20%	189	0.97
SNR3010-4R7M	4.7±20%	293	0.75
SNR3010-6R8M	6.8±20%	397	0.55
SNR3010-100M	10±20%	520	0.55
SNR3010-150M	15±20%	850	0.42
SNR3010-220M	22±20%	1300	0.35
SNR3010-330M	33±20%	2050	0.29
SNR3010-470M	47±20%	2535	0.22

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 100uH
- Rated current up to 2.2A
- Small and very Thin inductor

General Specifications

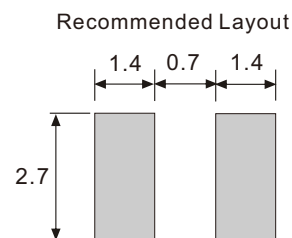
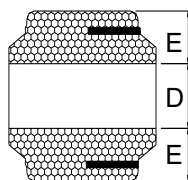
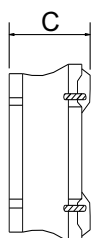
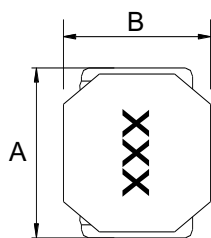
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR3012	3.0±0.2	3.0±0.2	1.3Max	1.2±0.2	0.9±0.2

Electrical Characteristics For SNR3012 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR3012-1R0N	1.0±30%	60	2.20
SNR3012-1R5N	1.5±30%	63	1.62
SNR3012-2R2N	2.2±30%	105	1.20
SNR3012-3R3M	3.3±20%	140	1.05
SNR3012-4R7M	4.7±20%	168	0.90
SNR3012-6R8M	6.8±20%	266	0.75
SNR3012-100M	10±20%	358	0.60
SNR3012-150M	15±20%	486	0.45
SNR3012-220M	22±20%	872	0.42
SNR3012-330M	33±20%	1182	0.36
SNR3012-470M	47±20%	1485	0.27
SNR3012-680M	68±20%	2255	0.24
SNR3012-101M	100±20%	3861	0.21

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 47uH
- Rated current up to 2.32A
- Small and very Thin inductor

General Specifications

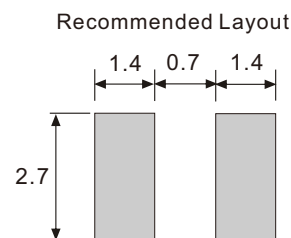
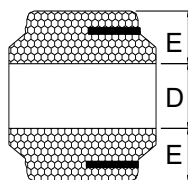
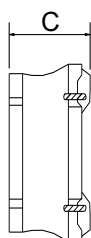
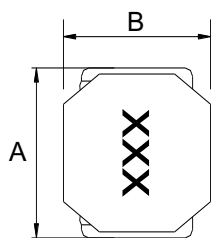
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR3015	3.0±0.2	3.0±0.2	1.7Max	1.2±0.2	0.9±0.2

► Electrical Characteristics For SNR3015 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR3015-1R0N	1.0±30%	48	2.32
SNR3015-1R5N	1.5±30%	65	2.10
SNR3015-2R2N	2.2±30%	78	1.60
SNR3015-3R3M	3.3±20%	104	1.30
SNR3015-4R7M	4.7±20%	160	1.10
SNR3015-6R8M	6.8±20%	234	0.85
SNR3015-100M	10±20%	338	0.70
SNR3015-150M	15±20%	439	0.60
SNR3015-220M	22±20%	600	0.52
SNR3015-330M	33±20%	1066	0.44
SNR3015-470M	47±20%	1600	0.35

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 47uH
- Rated current up to 2.2A
- Small and very Thin inductor

General Specifications

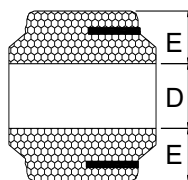
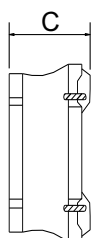
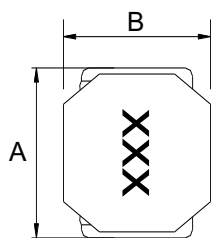
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

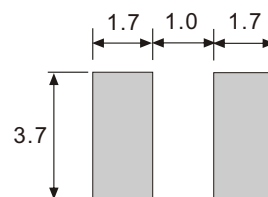
- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
SNR4010	4.0±0.2	4.0±0.2	1.2Max	1.4±0.2	1.3±0.2

Electrical Characteristics For SNR4010 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR4010-1R0N	1.0±30%	92	2.20
SNR4010-2R2N	2.2±30%	152	1.60
SNR4010-3R3M	3.3±20%	206	1.40
SNR4010-4R7M	4.7±20%	286	1.10
SNR4010-6R8M	6.8±20%	378	1.00
SNR4010-8R2M	6.8±20%	436	0.85
SNR4010-100M	10±20%	480	0.80
SNR4010-220M	22±20%	1430	0.50
SNR4010-470M	47±20%	2389	0.23

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 68uH
- Rated current up to 2.61A
- Small and very Thin inductor

General Specifications

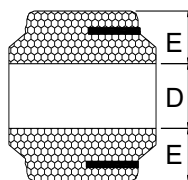
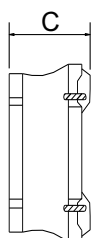
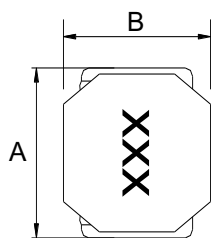
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

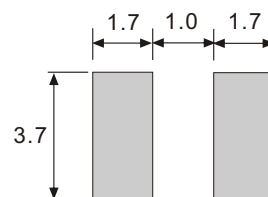
- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



► Dimensions & Configurations (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
SNR4012	4.0±0.2	4.0±0.2	1.35Max	1.4±0.2	1.3±0.2

► Electrical Characteristics For SNR4012 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR4012-1R0N	1.0±30%	65	2.61
SNR4012-1R5N	1.5±30%	85	2.10
SNR4012-2R2N	2.2±30%	104	1.76
SNR4012-3R3M	3.3±20%	147	1.25
SNR4012-4R7M	4.7±20%	163	1.15
SNR4012-6R8M	6.8±20%	260	0.95
SNR4012-100M	10±20%	345	0.80
SNR4012-150M	15±20%	442	0.56
SNR4012-220M	22±20%	611	0.54
SNR4012-330M	33±20%	1053	0.42
SNR4012-470M	47±20%	1430	0.35
SNR4012-680M	68±20%	1950	0.30

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 220uH
- Rated current up to 4.5A
- Small and very Thin inductor

General Specifications

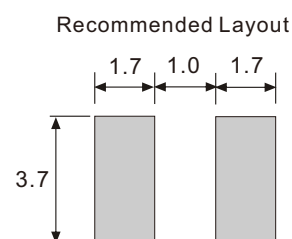
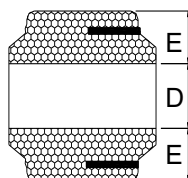
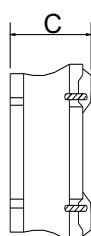
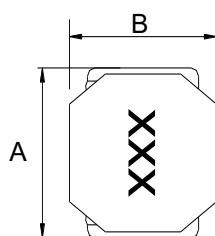
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR4018	4.0±0.2	4.0±0.2	1.8Max	1.4±0.2	1.3±0.2

► Electrical Characteristics For SNR4018 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat(max) [A]
SNR4018-1R0N	1.0±30%	33	4.50
SNR4018-1R2N	1.2±30%	48	3.50
SNR4018-2R2N	2.2±30%	59	2.70
SNR4018-3R3M	3.3±20%	84	2.15
SNR4018-4R7M	4.7±20%	117	2.00
SNR4018-5R6M	5.6±20%	130	1.65
SNR4018-6R8M	6.8±20%	143	1.60
SNR4018-100M	10±20%	234	1.30
SNR4018-150M	15±20%	325	0.95
SNR4018-220M	22±20%	468	0.80
SNR4018-330M	33±20%	689	0.65
SNR4018-470M	47±20%	845	0.57
SNR4018-680M	68±20%	1300	0.46
SNR4018-101M	100±20%	1950	0.41
SNR4018-151M	150±20%	3120	0.32
SNR4018-221M	220±20%	4800	0.28



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 82uH
- Rated current up to 4.78A
- Small and very Thin inductor

General Specifications

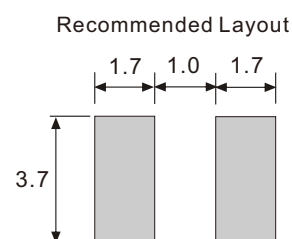
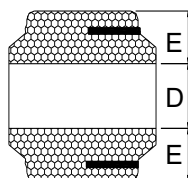
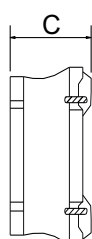
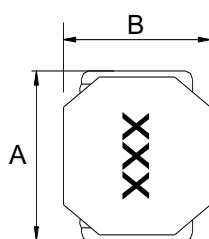
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR4020	4.0±0.2	4.0±0.2	2.1Max	1.4±0.2	1.3±0.2

► Electrical Characteristics For SNR4020 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR4020-1R0N	1.0±30%	41.88	4.78
SNR4020-1R5N	1.5±30%	50.6	4.45
SNR4020-2R2N	2.2±30%	54.6	3.40
SNR4020-3R3M	3.3±20%	95.8	3.20
SNR4020-4R7M	4.7±20%	102.9	2.35
SNR4020-6R8M	6.8±20%	171.2	2.15
SNR4020-100M	10±20%	225	1.60
SNR4020-150M	15±20%	314	1.35
SNR4020-220M	22±20%	477	1.05
SNR4020-330M	33±20%	750	0.85
SNR4020-470M	47±20%	969	0.74
SNR4020-680M	68±20%	1449	0.61
SNR4020-820M	82±20%	1596	0.50



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 68uH
- Rated current up to 3.3A
- Small and very Thin inductor

General Specifications

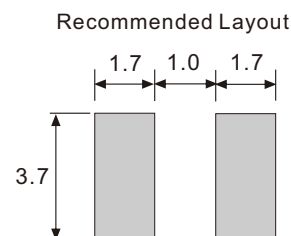
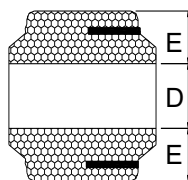
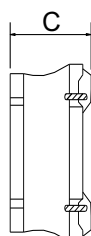
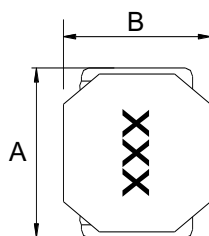
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR4026	4.0±0.2	4.0±0.2	2.8Max	1.4±0.2	1.3±0.2

► Electrical Characteristics For SNR4026 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR4026-1R0N	1.0±30%	45	3.30
SNR4026-2R2N	2.2±30%	60	2.90
SNR4026-3R3M	3.3±20%	88	2.50
SNR4026-4R7M	4.7±20%	128	2.25
SNR4026-6R8M	6.8±20%	145	1.90
SNR4026-8R2M	8.2±20%	160	1.75
SNR4026-100M	10±20%	180	1.65
SNR4026-150M	15±20%	300	1.55
SNR4026-220M	22±20%	330	1.40
SNR4026-330M	33±20%	482	1.20
SNR4026-470M	47±20%	950	1.00
SNR4026-680M	68±20%	1300	0.80

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 220uH
- Rated current up to 5A
- Small and very Thin inductor

General Specifications

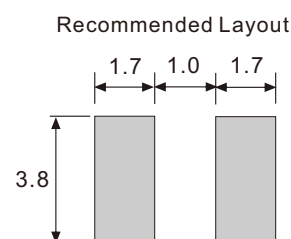
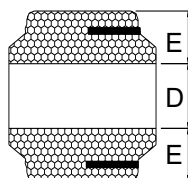
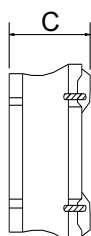
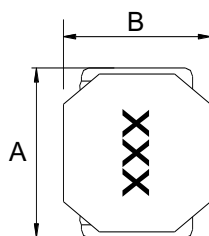
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR4030	4.0±0.2	4.0±0.2	3.0Max	1.4±0.2	1.3±0.2

Electrical Characteristics For SNR4030 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR4030-1R0N	1.0±30%	28.6	5.00
SNR4030-1R5N	1.5±30%	42	4.80
SNR4030-2R2N	2.2±30%	46	4.50
SNR4030-3R3M	3.3±20%	65	3.00
SNR4030-4R7M	4.7±20%	78	2.90
SNR4030-6R8M	6.8±20%	130	2.20
SNR4030-100M	10±20%	156	2.00
SNR4030-150M	15±20%	260	1.70
SNR4030-220M	22±20%	293	1.30
SNR4030-330M	33±20%	468	1.10
SNR4030-470M	47±20%	598	0.98
SNR4030-560M	56±20%	695	0.88
SNR4030-680M	68±20%	1087	0.77
SNR4030-101M	100±20%	1443	0.70
SNR4030-151M	150±20%	1820	0.50
SNR4030-221M	220±20%	4550	0.33

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 22uH
- Rated current up to 4A
- Small and very Thin inductor

General Specifications

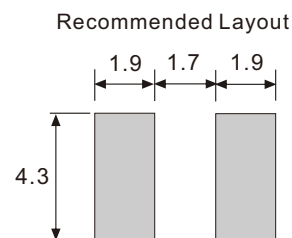
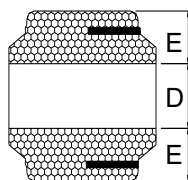
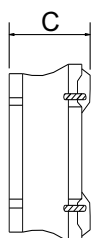
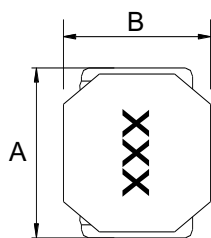
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR5012	5.0±0.2	5.0±0.2	1.3Max	2.0±0.2	1.5±0.2

Electrical Characteristics For SNR5012 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR5012-1R0N	1.0±30%	78	4.00
SNR5012-1R5N	1.5±30%	85	3.20
SNR5012-2R2N	2.2±30%	120	3.10
SNR5012-3R3M	3.3±20%	200	2.20
SNR5012-4R7M	4.7±20%	230	1.98
SNR5012-6R8M	6.8±20%	390	1.50
SNR5012-100M	10±20%	624	1.40
SNR5012-150M	15±20%	804	1.20
SNR5012-220M	22±20%	1300	1.10

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 30% from its value without current



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 220uH
- Rated current up to 7.35A
- Small and very Thin inductor

General Specifications

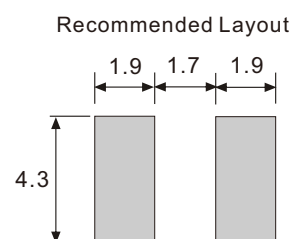
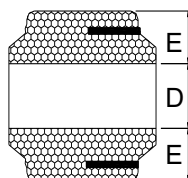
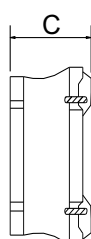
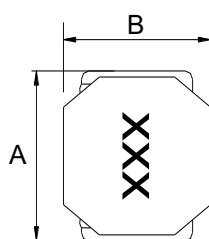
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR5040	5.0±0.2	5.0±0.2	4.0Max	2.0±0.2	1.5±0.2

Electrical Characteristics For SNR5040 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR5040-1R0N	1.0±30%	18	7.35
SNR5040-1R5N	1.5±30%	28	5.00
SNR5040-2R2N	2.2±30%	28	4.90
SNR5040-3R3M	3.3±20%	34	3.95
SNR5040-4R7M	4.7±20%	42	3.50
SNR5040-6R8M	6.8±20%	59	2.90
SNR5040-100M	10±20%	78	2.30
SNR5040-150M	15±20%	104	2.00
SNR5040-220M	22±20%	169	1.60
SNR5040-270M	27±20%	208	1.40
SNR5040-330M	33±20%	234	1.30
SNR5040-470M	47±20%	403	1.02
SNR5040-560M	56±20%	442	1.00
SNR5040-680M	68±20%	650	0.85
SNR5040-101M	100±20%	728	0.66
SNR5040-221M	220±20%	2340	0.40



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 470uH
- Rated current up to 6A
- Small and very Thin inductor

General Specifications

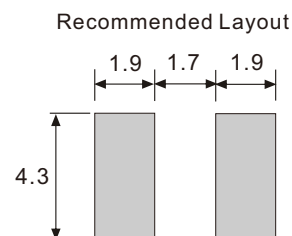
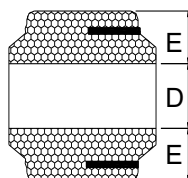
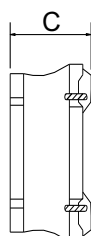
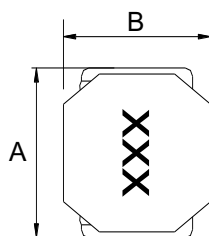
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks,desktop computers,servers,graphic cards.



Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR5045	5.0±0.2	5.0±0.2	4.5Max	2.0±0.2	1.5±0.2

Electrical Characteristics For SNR5045 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR5045-1R0N	1.0±30%	20	6.00
SNR5045-1R5N	1.5±30%	21	5.80
SNR5045-2R2N	2.2±30%	22	5.00
SNR5045-3R3M	3.3±20%	29	4.00
SNR5045-4R7M	4.7±20%	34	3.30
SNR5045-220M	22±20%	170	1.75
SNR5045-151M	150±20%	1700	0.55
SNR5045-221M	220±20%	1950	0.50
SNR5045-471M	470±20%	4300	0.20



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 470uH
- Rated current up to 6A
- Small and very Thin inductor

General Specifications

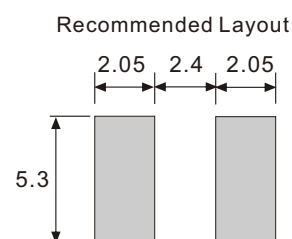
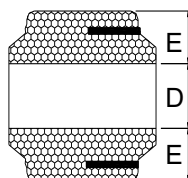
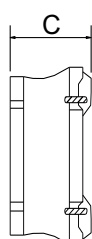
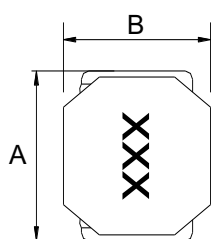
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR6020	6.0±0.2	6.0±0.2	2.0Max	2.7±0.2	1.65±0.2

► Electrical Characteristics For SNR6020 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR6020-1R0N	1.0±30%	28	4.27
SNR6020-1R5N	1.5±30%	35	4.20
SNR6020-2R2N	2.2±30%	45	3.20
SNR6020-3R3M	3.3±20%	46	3.15
SNR6020-4R7M	4.7±20%	90	2.80
SNR6020-6R8M	6.8±20%	140	2.20
SNR6020-100M	10±20%	175	1.85
SNR6020-120M	12±20%	190	1.70
SNR6020-150M	15±20%	200	1.35
SNR6020-220M	22±20%	280	1.29
SNR6020-330M	33±20%	400	1.00
SNR6020-470M	47±20%	650	0.90
SNR6020-680M	68±20%	990	0.65
SNR6020-101M	100±20%	1430	0.50



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 1000uH
- Rated current up to 4.33A
- Small and very Thin inductor

General Specifications

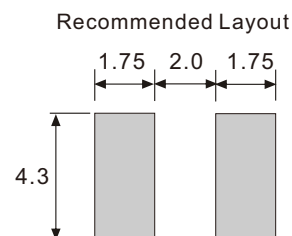
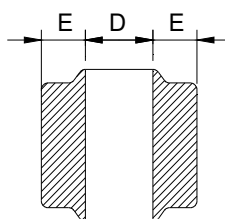
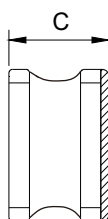
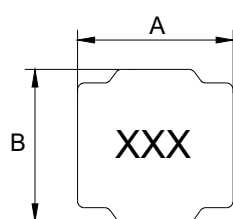
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR5020	5.0±0.2	5.0±0.2	2.0Max	2.3±0.2	1.35±0.2

Electrical Characteristics For SNR5020 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR5020-1R0N	1.0±30%	25	4.33
SNR5020-1R5N	1.5±30%	34	4.10
SNR5020-2R2N	2.2±30%	50	3.60
SNR5020-3R3M	3.3±20%	59	3.00
SNR5020-4R7M	4.7±20%	78	2.50
SNR5020-6R8M	6.8±20%	108	2.05
SNR5020-100M	10±20%	156	1.44
SNR5020-150M	15±20%	234	1.40
SNR5020-220M	22±20%	294	1.15
SNR5020-270M	27±20%	390	1.05
SNR5020-330M	33±20%	465	1.00
SNR5020-470M	47±20%	657	0.82
SNR5020-680M	68±20%	835	0.59
SNR5020-101M	100±20%	1328	0.55
SNR5020-221M	220±20%	2860	0.28
SNR5020-102M	1000±20%	18200	0.10



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 100uH
- Rated current up to 3A
- Small and very Thin inductor

General Specifications

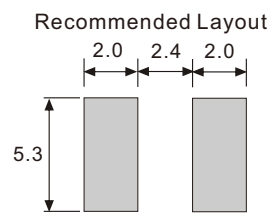
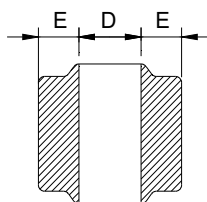
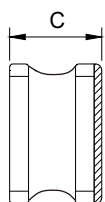
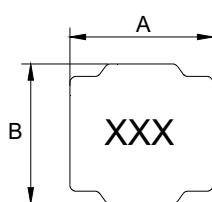
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR6012	6.0±0.2	6.0±0.2	1.3Max	2.3±0.2	1.35±0.2

Electrical Characteristics For SNR6012 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR6012-1R0N	1.0±30%	60	3.00
SNR6012-1R5N	1.5±30%	80	2.60
SNR6012-2R2N	2.2±30%	108	2.10
SNR6012-3R3M	3.3±20%	126	1.80
SNR6012-4R7M	4.7±20%	150	1.60
SNR6012-6R8M	6.8±20%	198	1.30
SNR6012-100M	10±20%	240	1.00
SNR6012-150M	15±20%	354	0.80
SNR6012-220M	22±20%	558	0.76
SNR6012-330M	33±20%	696	0.59
SNR6012-470M	47±20%	1158	0.52
SNR6012-680M	68±20%	1392	0.44
SNR6012-101M	100±20%	2004	0.35

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 1000uH
- Rated current up to 5.75A
- Small and very Thin inductor

General Specifications

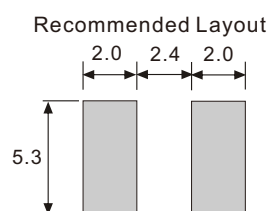
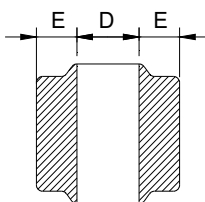
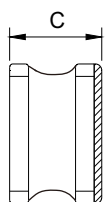
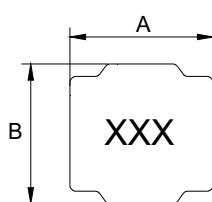
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR6028	6.0±0.2	6.0±0.2	3.0Max	2.3±0.2	1.35±0.2

Electrical Characteristics For SNR6028 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR6028-1R0N	1.0±30%	20	5.75
SNR6028-1R5N	1.5±30%	25	5.25
SNR6028-2R2N	2.2±30%	28	5.10
SNR6028-3R3M	3.3±20%	40	3.80
SNR6028-4R7M	4.7±20%	45	3.70
SNR6028-5R6M	5.6±20%	60	3.15
SNR6028-6R8M	6.8±20%	65	3.00
SNR6028-100M	10±20%	85	2.50
SNR6028-120M	12±20%	96	2.00
SNR6028-150M	15±20%	125	2.00
SNR6028-220M	22±20%	185	1.45
SNR6028-270M	27±20%	210	1.45
SNR6028-330M	33±20%	260	1.20
SNR6028-470M	47±20%	410	1.15
SNR6028-560M	56±20%	420	0.85
SNR6028-680M	68±20%	546	0.85
SNR6028-820M	82±20%	680	0.80
SNR6028-101M	100±20%	750	0.75
SNR6028-151M	150±20%	860	0.50
SNR6028-331M	330±20%	2400	0.27
SNR6028-471M	470±20%	3500	0.23
SNR6028-102M	1000±20%	7800	0.20



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 1000uH
- Rated current up to 9.85A
- Small and very Thin inductor

General Specifications

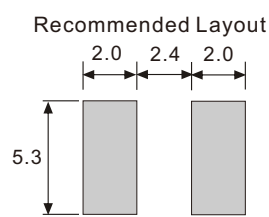
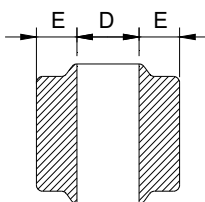
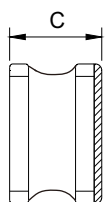
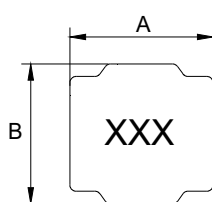
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR6045	6.0±0.2	6.0±0.2	4.5Max	2.3±0.2	1.35±0.2

Electrical Characteristics For SNR6045 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR6045-1R0N	1.0±30%	14.3	9.85
SNR6045-1R5N	1.5±30%	15.6	9.00
SNR6045-1R8N	1.8±30%	23.4	7.00
SNR6045-2R2N	2.2±30%	23.4	6.90
SNR6045-3R3M	3.3±20%	27.3	5.90
SNR6045-4R7M	4.7±20%	33.8	5.00
SNR6045-5R6M	5.6±20%	36.4	4.27
SNR6045-6R8M	6.8±20%	40.3	3.90
SNR6045-8R2M	8.2±20%	59.8	3.30
SNR6045-100M	10±20%	59.8	3.30
SNR6045-120M	12±20%	78	2.80
SNR6045-150M	15±20%	84.5	2.58
SNR6045-220M	22±20%	149.5	2.08
SNR6045-270M	27±20%	156	1.90
SNR6045-330M	33±20%	182	1.65
SNR6045-470M	47±20%	260	1.44
SNR6045-560M	56±20%	377	1.40
SNR6045-680M	68±20%	541	0.98
SNR6045-101M	100±20%	606	0.88
SNR6045-121M	120±20%	754	0.80
SNR6045-151M	150±20%	1044	0.72
SNR6045-221M	220±20%	2600	0.50
SNR6045-331M	330±20%	6760	0.24
SNR6045-102M	1000±20%	7800	0.27



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 2.2uH - 33uH
- Rated current up to 8.5A
- Small and very Thin inductor

General Specifications

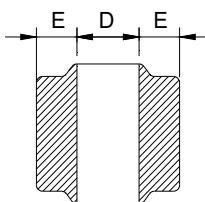
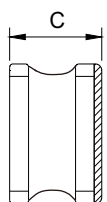
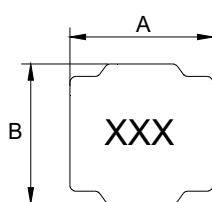
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

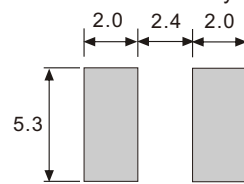
- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
SNR6050	6.0±0.2	6.0±0.2	5.3Max	2.3±0.2	1.35±0.2

Electrical Characteristics For SNR6050 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR6050-2R2N	2.2±30%	20	8.50
SNR6050-3R3M	3.3±20%	26	7.20
SNR6050-4R7M	4.7±20%	36	6.40
SNR6050-6R8M	6.8±20%	46	5.20
SNR6050-100M	10±20%	60	4.20
SNR6050-150M	15±20%	90	3.30
SNR6050-220M	22±20%	120	3.10
SNR6050-330M	33±20%	175	2.20

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 33uH
- Rated current up to 10A
- Small and very Thin inductor

General Specifications

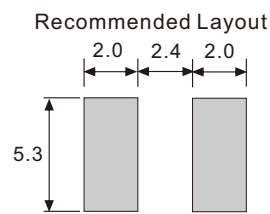
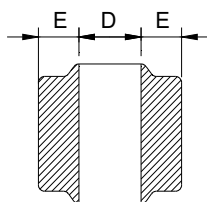
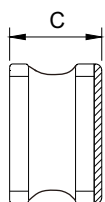
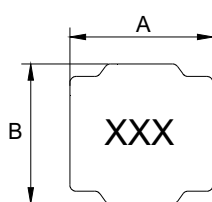
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR6060	6.0±0.2	6.0±0.2	6.3Max	2.3±0.2	1.35±0.2

Electrical Characteristics For SNR6060 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR6060-1R0N	1.0±30%	10	10.00
SNR6060-2R0N	2.0±30%	20	8.80
SNR6060-2R2N	2.2±30%	20	8.80
SNR6060-3R3M	3.3±20%	25	7.50
SNR6060-4R7M	4.7±20%	32.5	6.80
SNR6060-6R8M	6.8±20%	40	5.90
SNR6060-100M	10±20%	72	4.60
SNR6060-150M	15±20%	97.5	3.80
SNR6060-220M	22±20%	110.5	3.40
SNR6060-330M	33±20%	156	2.80

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Magnetic-resin Shielded reduces noise
- Inductance Range: 1uH - 470uH
- Rated current up to 10.15A
- Small and very Thin inductor

General Specifications

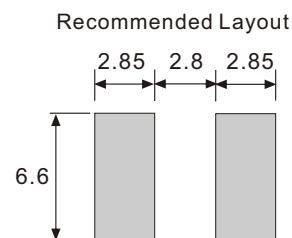
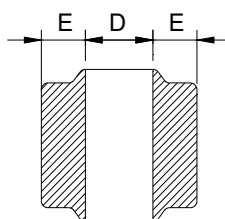
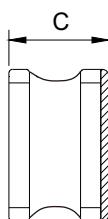
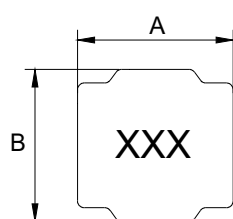
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Application

- LED Lighting,
- Automotive systems,
- Notebooks, desktop computers, servers, graphic cards.



Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E
SNR8040	8.0±0.2	8.0±0.2	4.2Max	3.1±0.2	2.45±0.2

Electrical Characteristics For SNR8040 Series

Part Number	Inductance [uH]	DCR(max) [mΩ]	Isat [A] (Max.)
SNR8040-1R0N	1.0±30%	9.1	10.15
SNR8040-1R5N	1.5±30%	13	8.15
SNR8040-2R2N	2.2±30%	15.6	8.00
SNR8040-3R3M	3.3±20%	22.1	6.50
SNR8040-4R7M	4.7±20%	24.7	5.90
SNR8040-6R8M	6.8±20%	31.2	4.95
SNR8040-100M	10±20%	52	4.30
SNR8040-150M	15±20%	61	2.95
SNR8040-220M	22±20%	85.8	2.50
SNR8040-330M	33±20%	143	2.07
SNR8040-470M	47±20%	195	1.75
SNR8040-680M	68±20%	255	1.45
SNR8040-101M	100±20%	377	1.15
SNR8040-221M	220±20%	780	0.85
SNR8040-331M	330±20%	1157	0.68
SNR8040-471M	470±20%	1950	0.55
SNR8040-681M	680±20%	2652	0.48



Features

- Semi-shielded construction
- Coating: Magnetic epoxy resin
- High rated current

Package

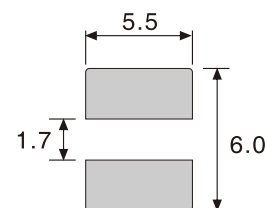
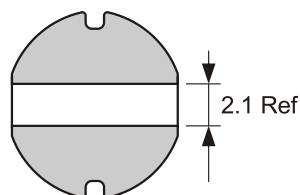
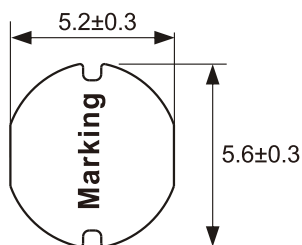
- MS54S - 1500 PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout

Electrical Characteristics @ 25°C

Part Number	Inductance [μH]	DCR(max) [Ω]	I _{rms} [A]	I _{sat} [A]
MS54S-1R0N	1.0 ±30%	0.014	4.2	8.5
MS54S-1R3N	1.3 ±30%	0.017	4.0	8.0
MS54S-1R8N	1.8 ±30%	0.020	3.7	7.0
MS54S-2R2N	2.2 ±30%	0.025	3.5	6.0
MS54S-3R3N	3.3 ±30%	0.031	3.2	5.0
MS54S-4R7N	4.7 ±30%	0.038	3.0	4.0
MS54S-6R8N	6.8 ±30%	0.048	2.8	3.8
MS54S-8R2N	8.2 ±30%	0.055	2.7	3.3
MS54S-100M	10 ±20%	0.059	2.5	3.0
MS54S-150M	15 ±20%	0.096	1.9	2.3
MS54S-220M	22 ±20%	0.142	1.5	1.9
MS54S-330M	33 ±20%	0.188	1.4	1.5
MS54S-470M	47 ±20%	0.257	1.1	1.3
MS54S-680M	68 ±20%	0.351	0.9	1.0
MS54S-101M	100 ±20%	0.500	0.7	0.8
MS54S-221M	220 ±20%	1.180	0.6	0.7

- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 30% from its value without current



Features

- Semi-shielded construction
- Coating: Magnetic epoxy resin
- High rated current

Package

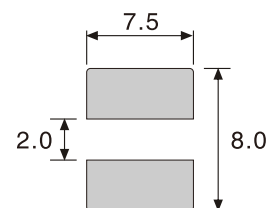
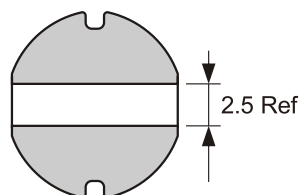
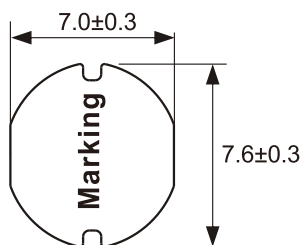
- MS73S - 1000 PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout

Electrical Characteristics @ 25°C

Part Number	Inductance [μH]	DCR(max) [Ω]	I _{rms} [A]	I _{sat} [A]
MS73S-R50N	0.5±30%	0.007	10.0	12.0
MS73S-1R0N	1.0±30%	0.010	7.8	11.0
MS73S-1R5N	1.5±30%	0.011	7.0	8.2
MS73S-2R2N	2.2±30%	0.013	6.3	7.4
MS73S-3R3N	3.3±30%	0.021	5.6	5.5
MS73S-3R6N	3.6±30%	0.022	4.9	5.3
MS73S-4R7N	4.7±30%	0.024	4.1	4.7
MS73S-6R8N	6.8±30%	0.033	3.9	4.2
MS73S-8R2N	8.2±30%	0.045	3.7	4.0
MS73S-100M	10±20%	0.050	3.1	3.4
MS73S-150M	15±20%	0.070	2.4	2.7
MS73S-220M	22±20%	0.100	2.2	2.2
MS73S-330M	33±20%	0.145	1.7	1.9
MS73S-470M	47±20%	0.190	1.4	1.5
MS73S-680M	68±20%	0.275	1.1	1.2
MS73S-101M	100±20%	0.400	1.0	1.0

- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 30% from its value without current



Features

- Semi-shielded construction
- Coating: Magnetic epoxy resin
- High rated current

Package

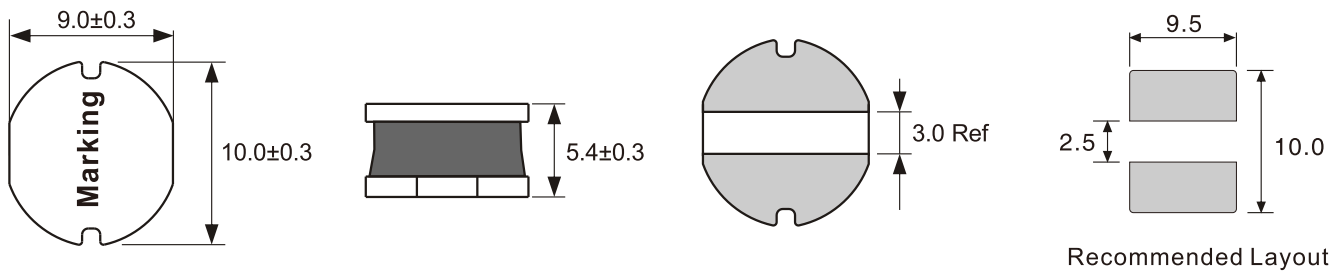
- MS105S - 1000 PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Electrical Characteristics @ 25°C

Part Number	Inductance [μH]	DCR(max) [Ω]	I _{rms} [A]	I _{sat} [A]
MS105S-100M	10 ±20%	0.029	5.40	5.20
MS105S-180M	18 ±20%	0.043	3.85	3.80
MS105S-220M	22 ±20%	0.053	3.40	3.40
MS105S-330M	33 ±20%	0.072	3.15	2.80
MS105S-470M	47 ±20%	0.11	2.50	2.30
MS105S-101M	100 ±20%	0.21	1.70	1.70
MS105S-151M	150 ±20%	0.30	1.25	1.35
MS105S-221M	220 ±20%	0.46	1.00	1.20
MS105S-331M	330 ±20%	0.62	0.90	0.90
MS105S-471M	470 ±20%	0.95	0.80	0.80

- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS Compliant and Halogen Free

Package Quantity

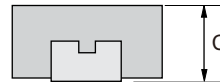
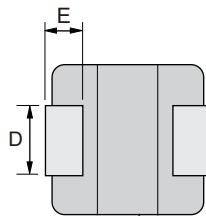
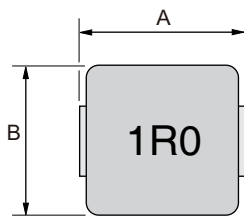
- 5000 pcs/reel

General Specifications

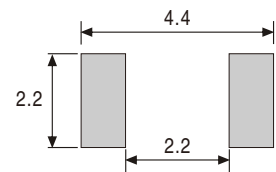
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HI0410	4.1±0.2	4.1±0.2	0.8±0.2	1.8±0.2	0.8±0.2

Electrical Characteristics For HI0410 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0410-2R2M	2.2	100	4.3	3.4
HI0410-4R7M	4.7	160	2.5	2.6
HI0410-6R8M	6.8	255	2.2	2
HI0410-100M	10	336	1.8	1.5

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS Compliant and Halogen Free

Package Quantity

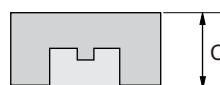
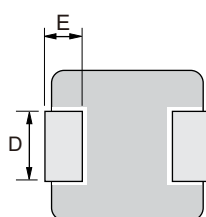
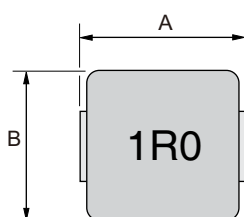
- 3000 pcs/reel

General Specifications

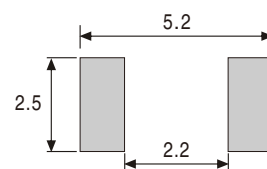
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HI0412	4.4±0.35	4.2±0.25	1.0±0.2	2.0±0.3	0.8±0.3

Electrical Characteristics For HI0412 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0412-R15M	0.15	9	15	7.5
HI0412-R22M	0.22	11	11	7
HI0412-R33M	0.33	19	8.4	6.5
HI0412-R47M	0.47	21	6.8	6
HI0412-R68M	0.68	36	6	4.7
HI0412-1R0M	1.0	47	5.5	4.5
HI0412-1R5M	1.5	75	4	3.25
HI0412-2R2M	2.2	83.5	3	2.75
HI0412-4R7M	4.7	195	2.2	1.8

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS Compliant and Halogen Free

Package Quantity

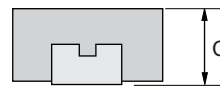
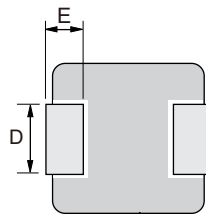
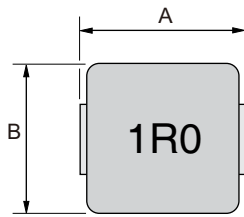
- 3000 pcs/reel

General Specifications

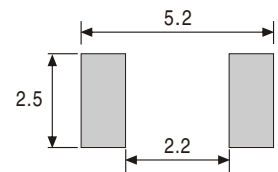
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HI0420	4.4±0.35	4.2±0.25	1.8±0.2	2.0±0.3	0.8±0.3

Electrical Characteristics For HI0420 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0420-R10M	0.10	4	22	13
HI0420-R22M	0.22	6.6	12.5	9.5
HI0420-R33M	0.33	11	12	10
HI0420-R47M	0.47	14	9.5	7.5
HI0420-R56M	0.56	16	9	7
HI0420-R68M	0.68	18	8	7
HI0420-1R0M	1.0	27	7	6
HI0420-1R2M	1.2	27	6.5	6
HI0420-1R5M	1.5	46	5.5	5
HI0420-2R2M	2.2	58	5	4.5
HI0420-3R3M	3.3	87	3.5	3.3
HI0420-4R7M	4.7	105	3	2.8
HI0420-6R8M	6.8	175	2.5	2.4
HI0420-100M	10	282	2	1.6

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS Compliant and Halogen Free

Package Quantity

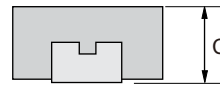
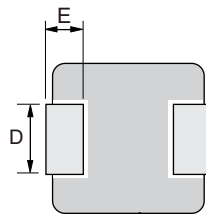
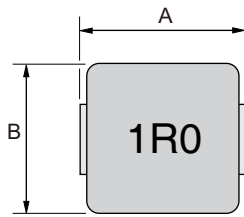
- 2000 pcs/reel

General Specifications

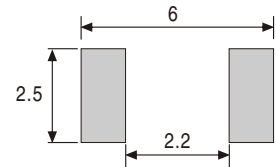
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HI0518	5.4±0.35	5.2±0.2	1.6±0.2	2.2±0.3	1.2±0.2

Electrical Characteristics For HI0518 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0518-R47M	0.47	9	15.5	10.5
HI0518-R56M	0.56	10	15	9.5
HI0518-R68M	0.68	13.8	11.2	8.9
HI0518-1R0M	1.0	17	9	8
HI0518-1R5M	1.5	26	8	7.5
HI0518-2R2M	2.2	35	6.5	5
HI0518-3R3M	3.3	58	5	4.5
HI0518-4R7M	4.7	85	4	3.5
HI0518-6R8M	6.8	120	3.4	2.8
HI0518-100M	10	155	3	2.5

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS Compliant and Halogen Free

Package Quantity

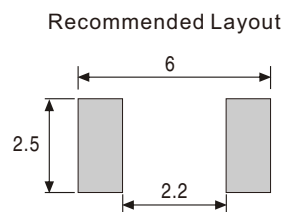
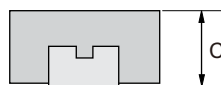
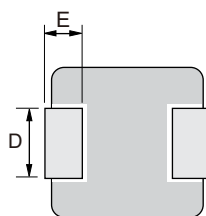
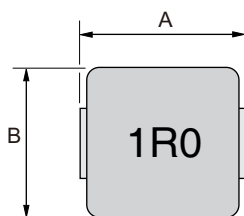
- 2000 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HI0520	5.4±0.35	5.2±0.2	1.8±0.2	2.2±0.3	1.2±0.2

Electrical Characteristics For HI0520 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0520-R22M	0.22	4.5	19	15
HI0520-R47M	0.47	9	16	10.5
HI0520-R56M	0.56	10	15	9.5
HI0520-1R0M	1.0	17	9.5	8
HI0520-1R5M	1.5	30	8.5	5.5
HI0520-2R2M	2.2	34	7	5
HI0520-3R3M	3.3	58	5.5	4.5
HI0520-4R7M	4.7	78	4.5	3.5
HI0520-6R8M	6.8	120	3.5	2.8
HI0520-8R2M	8.2	150	3.3	2.6
HI0520-100M	10	175	3	2.5

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS Compliant and Halogen Free

Package Quantity

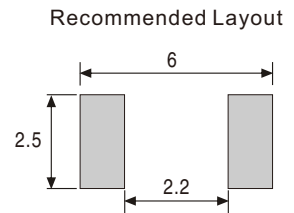
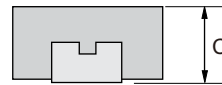
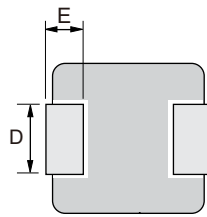
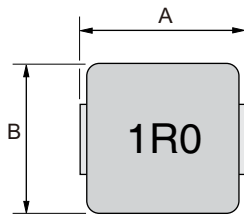
- 2000 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HI0530	5.4±0.35	5.2±0.2	2.8±0.2	2.2±0.3	1.2±0.2

Electrical Characteristics For HI0530 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0530-R10M	0.10	3	30	25
HI0530-R20M	0.20	3.9	20	14
HI0530-R33M	0.33	5.5	18	14
HI0530-R47M	0.47	8.5	15	11
HI0530-R68M	0.68	12	11.5	9
HI0530-1R0M	1.0	14	10	8.5
HI0530-1R2M	1.2	16	9.5	8.5
HI0530-1R5M	1.5	25	9	8.2
HI0530-2R2M	2.2	29	7	7
HI0530-3R3M	3.3	38	6	5.5
HI0530-4R7M	4.7	60	4.6	4.5
HI0530-6R8M	6.8	90	3.6	3.5
HI0530-100M	10	125	3.5	3.2

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

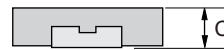
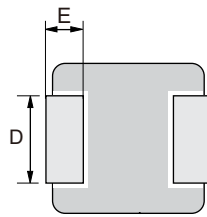
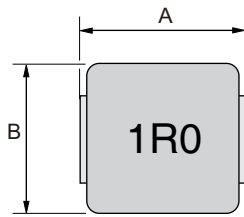
- 3000 pcs/reel

General Specifications

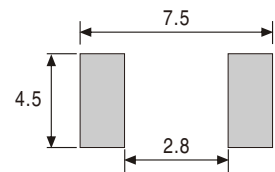
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HI0610B	6.1±0.3	6.1±0.3	0.8±0.2	4.0±0.3	1.75±0.3

Electrical Characteristics For HI0610B Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0610B-4R7M	4.7	172	2.8	2.2
HI0610B-6R8M	6.8	197	2.5	2
HI0610B-100M	10	310	2.1	1.6

- Inductance tested at 100kHz, 1.0Vrms, 0.0A_{dc}
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

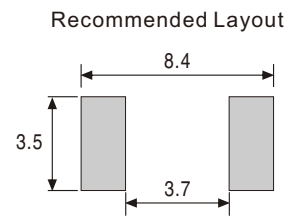
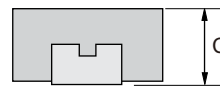
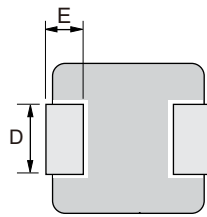
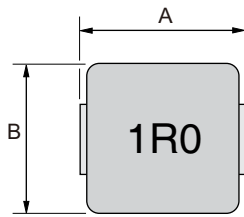
- 2000 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HI0615	7.0±0.3	6.6±0.2	1.3±0.2	3.0±0.3	1.6±0.3

Electrical Characteristics For HI0615 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0615-R47M	0.47	8.5	16	10
HI0615-R56M	0.56	11	14	9
HI0615-R68M	0.68	12	12	8.5
HI0615-R82M	0.82	17	10	8
HI0615-1R0M	1.0	21	9	6
HI0615-2R2M	2.2	54	7	3.8
HI0615-3R3M	3.3	63	5.5	3.5
HI0615-4R7M	4.7	85	5	3.2
HI0615-6R8M	6.8	135	4	2.5
HI0615-100M	10	175	3	2

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

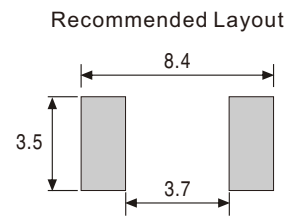
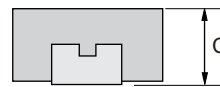
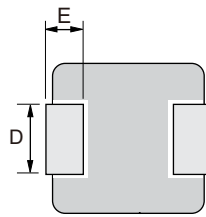
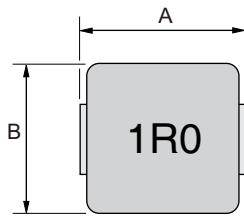
- 2000 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HI0618	7.0±0.3	6.6±0.2	1.6±0.2	3.0±0.3	1.6±0.3

Electrical Characteristics For HI0618 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0618-R10M	0.10	2.3	38	25
HI0618-R22M	0.22	3.5	24	22
HI0618-R47M	0.47	8.4	18	11.5
HI0618-R68M	0.68	12	16.5	9.5
HI0618-1R0M	1.0	16	12	8.5
HI0618-1R5M	1.5	26	9.2	8
HI0618-2R2M	2.2	35	8	7
HI0618-3R3M	3.3	50	6	4.5
HI0618-4R7M	4.7	62	5	4
HI0618-6R8M	6.8	110	4.5	3
HI0618-100M	10	155	4	2.3
HI0618-220M	22	350	2.3	1.8

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

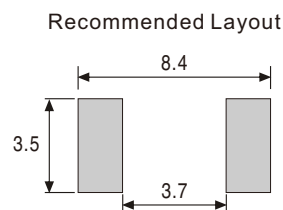
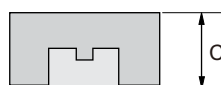
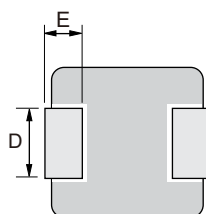
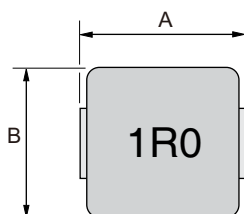
- 1500 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HI0624	7.0±0.3	6.6±0.2	2.2±0.2	3.0±0.3	1.6±0.3

Electrical Characteristics For HI0624 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0624-R22M	0.22	3	34	21
HI0624-R33M	0.33	4.1	24.5	18
HI0624-R47M	0.47	5.1	22	15
HI0624-R56M	0.56	6.5	17	13
HI0624-R68M	0.68	7	16	12
HI0624-1R0M	1.0	13.5	15	9
HI0624-1R5M	1.5	20	13.5	8.2
HI0624-2R2M	2.2	28	10	7
HI0624-3R3M	3.3	39	8	5.5
HI0624-4R7M	4.7	50	6.5	5
HI0624-6R8M	6.8	70	6	4
HI0624-100M	10	101	4	3.1
HI0624-150M	15	160	3.3	2.5
HI0624-220M	22	230	2.5	2

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

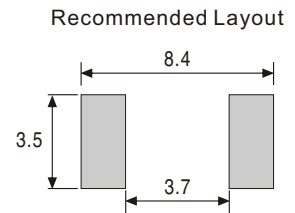
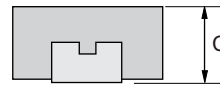
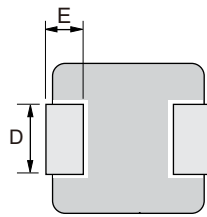
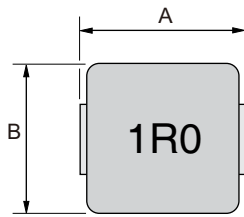
- 1500 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HI0630	7.0±0.3	6.6±0.2	2.8±0.2	3.0±0.3	1.6±0.3

Electrical Characteristics For HI0630 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0630-R22M	0.22	3	34	24
HI0630-R33M	0.33	3.5	25	21
HI0630-R47M	0.47	4.1	20	18
HI0630-R56M	0.56	4.5	18	16.5
HI0630-R68M	0.68	5.3	17	16
HI0630-R82M	0.82	6	16	14
HI0630-1R0M	1.0	7.4	15	12
HI0630-1R5M	1.5	12.1	12	12
HI0630-2R2M	2.2	15	10	9.5
HI0630-3R3M	3.3	22	9.5	8.5
HI0630-4R7M	4.7	33	9	6
HI0630-5R6M	5.6	42	6.5	5.5
HI0630-6R8M	6.8	48	6	5
HI0630-8R2M	8.2	60	5.5	5
HI0630-100M	10	68	5.5	4.5
HI0630-150M	15	113	4	3
HI0630-220M	22	170	3	2.5
HI0630-330M	33	270	2.5	2
HI0630-470M	47	385	2	1.5

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

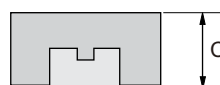
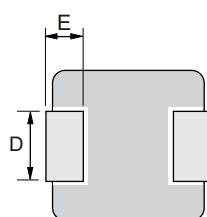
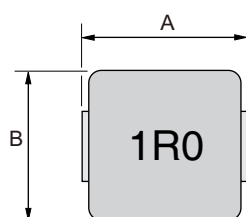
- 1000 pcs/reel

General Specifications

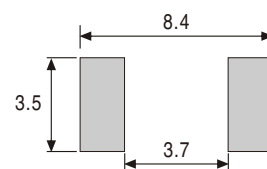
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HI0640	7.0±0.3	6.6±0.2	3.8±0.2	3.0±0.3	1.6±0.3

Electrical Characteristics For HI0640 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0640-R68M	0.68	4.8	19	17
HI0640-1R0M	1.0	6.6	16	13.5
HI0640-1R5M	1.5	10	12.5	12.4
HI0640-2R2M	2.2	14	11	10
HI0640-3R3M	3.3	20	9.5	8.5
HI0640-4R7M	4.7	30	9	6.5
HI0640-6R8M	6.8	45	6.5	5.5
HI0640-8R2M	8.2	55	6	5.2
HI0640-100M	10	65	6	4.8
HI0640-150M	15	95	4.5	3.7
HI0640-220M	22	125	4	3.3
HI0640-330M	33	240	3	2.2
HI0640-470M	47	320	2.5	1.8

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

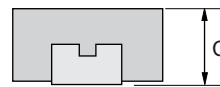
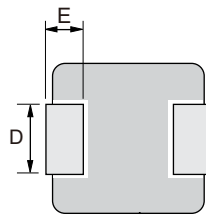
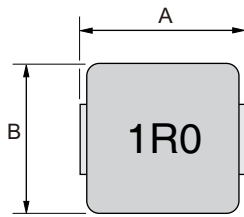
- 1000 pcs/reel

General Specifications

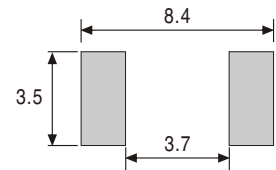
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HI0650	7.0±0.3	6.6±0.2	4.8±0.2	3.0±0.3	1.6±0.3

Electrical Characteristics For HI0650 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0650-R47M	0.47	3.9	21	20
HI0650-R68M	0.68	4.5	18	16.5
HI0650-1R0M	1.0	6.6	16	12
HI0650-1R5M	1.5	10	13	9.5
HI0650-2R2M	2.2	12.5	11	9
HI0650-3R3M	3.3	22	10	8.5
HI0650-4R7M	4.7	29	8	6
HI0650-6R8M	6.8	41	6.3	5.8
HI0650-8R2M	8.2	48	5.5	5.5
HI0650-100M	10	60	5.3	4.5
HI0650-150M	15	90	4	3.1
HI0650-220M	22	140	3.5	2.6
HI0650-330M	33	190	3	2.3
HI0650-470M	47	230	2.6	2

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

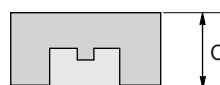
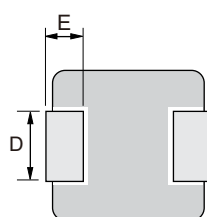
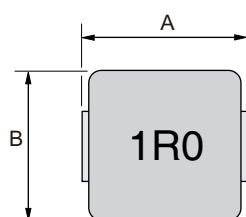
- 800 pcs/reel

General Specifications

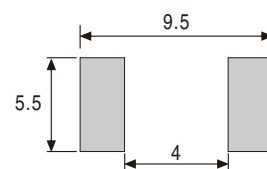
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HI0840	8.8±0.4	8.2±0.3	3.8±0.2	5.0±0.3	1.4±0.3

Electrical Characteristics For HI0840 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI0840-R22M	0.22	1.8	60	36
HI0840-R33M	0.33	2.4	45	30
HI0840-R47M	0.47	2.8	42	28
HI0840-R56M	0.56	3.2	26	24
HI0840-R68M	0.68	3.8	24	23
HI0840-R82M	0.82	4.4	21	21
HI0840-1R0M	1.0	4.62	19	19
HI0840-1R5M	1.5	7.6	17	17
HI0840-1R8M	1.8	11	15	15
HI0840-2R2M	2.2	11.4	14	14
HI0840-3R3M	3.3	15	12.5	12
HI0840-4R7M	4.7	26.5	11.5	9.5
HI0840-5R6M	5.6	30	11	9
HI0840-6R8M	6.8	36.8	9	8
HI0840-8R2M	8.2	46	8.7	7
HI0840-100M	10	59	8	6.5
HI0840-150M	15	71	5.5	5.4
HI0840-220M	22	113	5	4.8
HI0840-330M	33	156	3.5	3.5
HI0840-470M	47	225	3.1	2.9

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

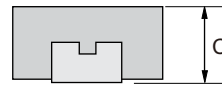
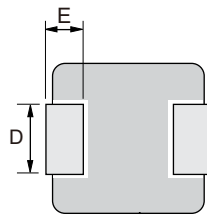
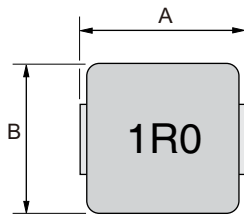
- 800 pcs/reel

General Specifications

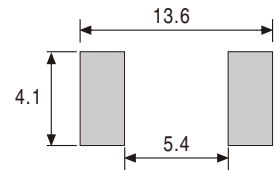
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HI1030	11.5 Max.	10.0±0.3	2.8±0.2	3.0±0.5	2.0±0.5

Electrical Characteristics For HI1030 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI1030-R22M	0.22	1.2	50	33
HI1030-R33M	0.33	1.6	32	23
HI1030-R36M	0.36	1.6	28	23
HI1030-R47M	0.47	2.5	26	22
HI1030-1R0M	1.0	6	21	15
HI1030-2R2M	2.2	9	14	11
HI1030-3R3M	3.3	16	12	9
HI1030-4R7M	4.7	24	10	7
HI1030-8R2M	8.2	45	7	5
HI1030-330M	33	160	4	2.6

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

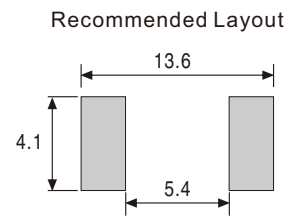
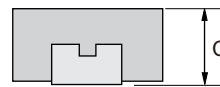
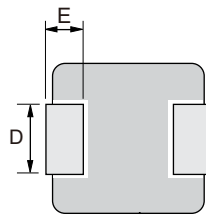
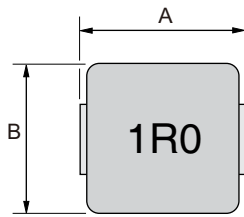
- 500 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HI1040	11.5 Max.	10.0±0.3	3.8±0.2	3.0±0.5	2.0±0.5

Electrical Characteristics For HI1040 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI1040-R15M	0.15	0.65	75	45
HI1040-R22M	0.22	1	60	35
HI1040-R30M	0.30	1.1	45	35
HI1040-R36M	0.36	1.2	45	30
HI1040-R47M	0.47	1.7	40	30
HI1040-R56M	0.56	1.8	33	25
HI1040-R68M	0.68	2.4	30	23
HI1040-R80M	0.80	2.7	29	23
HI1040-1R0M	1.0	3.3	28	19
HI1040-1R5M	1.5	4.2	24	16
HI1040-2R2M	2.2	7	16.5	12
HI1040-3R3M	3.3	11.8	16	11
HI1040-4R7M	4.7	20	13	9
HI1040-6R8M	6.8	25	12	8.5
HI1040-8R2M	8.2	27	9	8
HI1040-100M	10	30	8.5	7.8
HI1040-150M	15	45	7	6.5
HI1040-220M	22	66	5.5	5
HI1040-330M	33	92	4.8	4.4
HI1040-470M	47	145	3.5	3.3
HI1040-680M	68	195	3	2.5
HI1040-820M	82	285	2.8	2.3
HI1040-101M	100	340	2.3	2



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

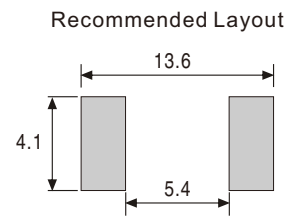
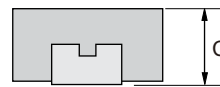
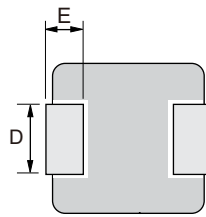
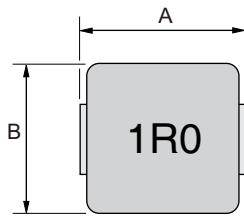
- 500 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HI1050	11.5 Max.	10.0±0.3	4.8±0.2	3.0±0.5	2.0±0.5

Electrical Characteristics For HI1050 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI1050-R22M	0.22	0.8	65	37
HI1050-1R0M	1.0	3	30	23
HI1050-1R5M	1.5	3.8	25	21
HI1050-2R2M	2.2	6	19	15
HI1050-3R3M	3.3	10	16	13
HI1050-4R7M	4.7	14	15	11
HI1050-5R6M	5.6	17	14	9.5
HI1050-6R8M	6.8	18.5	14	9
HI1050-100M	10	28	10	8
HI1050-150M	15	42	7.5	6.5
HI1050-220M	22	50	6	5.5
HI1050-330M	33	86	5.2	4.8
HI1050-470M	47	127	4.5	3.7
HI1050-101M	100	290	2.8	2.1

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

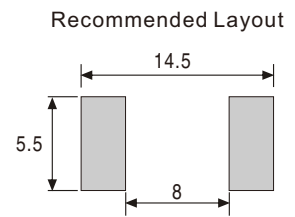
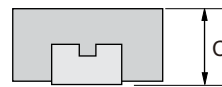
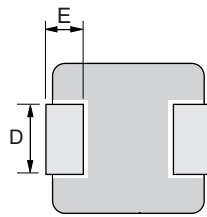
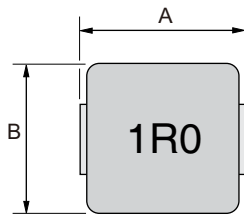
- 500 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HI1240	13.45±0.35	12.8±0.5	4.0 Max	3.85±0.5 / 5.0±0.3	2.0±0.5

Note: HI1240-R22M/R47M Dimensions D:3.85±0.5, HI1240-R68M~220M Dimensions D:5.0±0.3

Electrical Characteristics For HI1240 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI1240-R22M	0.22	0.9	50	42
HI1240-R47M	0.47	2	48	33
HI1240-R68M	0.68	3.5	47	28
HI1240-R82M	0.82	4.5	40	28
HI1240-1R0M	1.0	7.5	35	24
HI1240-1R5M	1.5	9.5	30.5	20
HI1240-2R2M	2.2	11.5	26	18
HI1240-3R3M	3.3	13	21	15
HI1240-4R7M	4.7	14.5	18	13
HI1240-6R8M	6.8	20	14	9
HI1240-100M	10	25	10	8
HI1240-150M	15	39	7.5	6.5
HI1240-220M	22	51	6	4.5

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

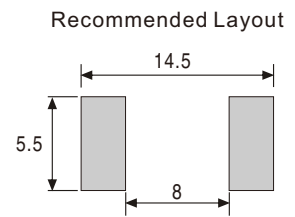
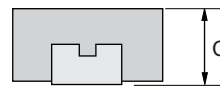
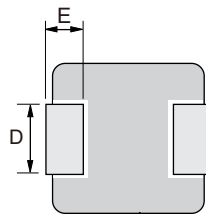
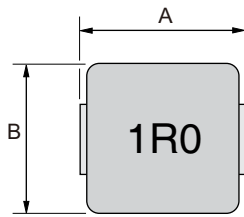
- 500 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HI1250	13.45±0.35	12.8±0.5	5.0 Max	3.85±0.5 / 5.0±0.3	2.0±0.5

Note: HI1250-R22M~2R2M Dimensions D:3.85±0.5, HI1250-3R3M~680M Dimensions D:5.0±0.3

Electrical Characteristics For HI1250 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI1250-R22M	0.22	0.7	75	50
HI1250-R36M	0.36	0.85	50	42
HI1250-R50M	0.50	1.15	48	38
HI1250-R68M	0.68	1.55	46	33
HI1250-R82M	0.82	1.67	39	30
HI1250-1R0M	1.0	2.2	35	26
HI1250-1R5M	1.5	3.2	33	23
HI1250-2R2M	2.2	5	24	15
HI1250-3R3M	3.3	7	22	14
HI1250-4R7M	4.7	9	20	13
HI1250-6R8M	6.8	18	16	12
HI1250-8R2M	8.2	20	13	9.5
HI1250-100M	10	22	12	9
HI1250-150M	15	30	10	8
HI1250-220M	22	58	6.5	4.5
HI1250-330M	33	84	6	3.5
HI1250-470M	47	130	5	3

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

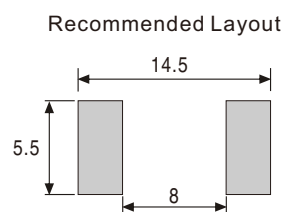
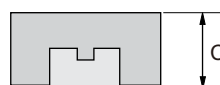
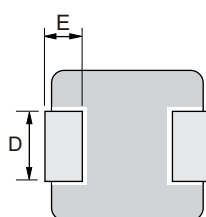
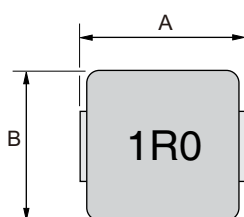
- 500 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HI1260	13.45±0.35	12.8±0.5	6.0 Max	5.0±0.3	2.0±0.5

Electrical Characteristics For HI1260 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI1260-4R7M	4.7	9	24	15
HI1260-5R6M	5.6	11	22.5	13
HI1260-6R8M	6.8	13.5	19	12
HI1260-8R2M	8.2	16	13.5	11
HI1260-100M	10	20.7	12.5	10
HI1260-120M	12	23	10	9
HI1260-150M	15	29	9	8.5
HI1260-180M	18	35	8	7.5
HI1260-220M	22	39.5	7.5	7
HI1260-270M	27	56	6.5	6
HI1260-330M	33	75	6	5.5
HI1260-470M	47	90	5.5	5
HI1260-680M	68	140	4.5	4
HI1260-101M	100	200	3.5	3
HI1260-121M	120	235	3.2	2
HI1260-151M	150	350	2.7	1.5

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

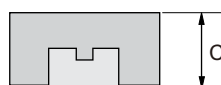
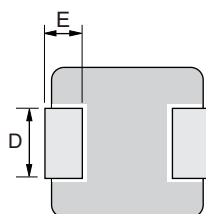
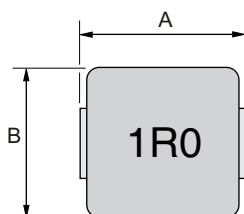
- 500 pcs/reel

General Specifications

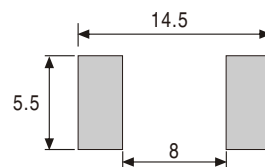
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HI1265	13.45±0.35	12.6±0.4	6.5 Max	5.0±0.3	2.0±0.5

Electrical Characteristics For HI1265 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI1265-4R7M	4.7	8.5	24	16
HI1265-5R6M	5.6	10.5	22.5	14
HI1265-6R8M	6.8	12	19	13
HI1265-8R2M	8.2	14	16	12
HI1265-100M	10	16.5	15	11
HI1265-150M	15	26	11	9.5
HI1265-220M	22	36	9	8
HI1265-330M	33	65	8	6.5
HI1265-470M	47	70	6.8	5.5
HI1265-680M	68	120	5.2	4.8
HI1265-820M	82	135	4.5	4
HI1265-101M	100	170	4	3.5

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

Package Quantity

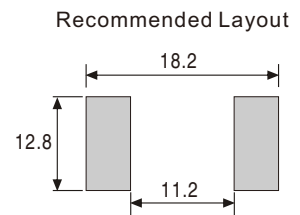
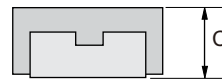
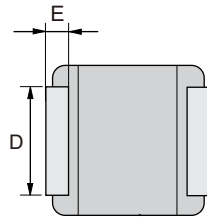
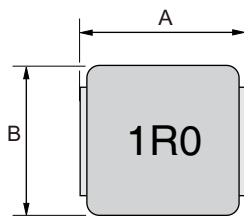
- 200 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HI1770	17.15±0.35	17.15Max	7.0Max	12.0±0.3	2.5±0.5

Electrical Characteristics For HI1770 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HI1770-2R2M	2.2	2.5	34	29
HI1770-3R3M	3.3	3.95	30	24
HI1770-4R7M	4.7	4.75	24	21
HI1770-6R8M	6.8	7.5	22	17
HI1770-8R2M	8.2	8.7	20	13
HI1770-100M	10	9.9	19	12
HI1770-150M	15	17	14.5	11
HI1770-220M	22	23	11.5	8.5
HI1770-330M	33	37	10	8
HI1770-470M	47	47	7.5	6
HI1770-680M	68	85	6.5	5.2
HI1770-101M	100	130	5	3.7

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Package Quantity

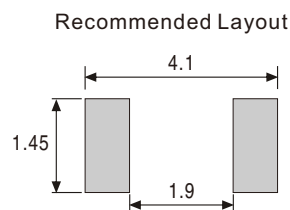
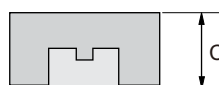
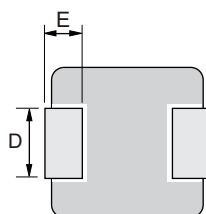
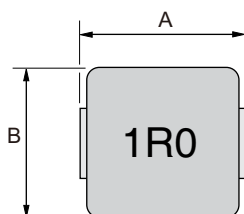
- 3000 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HIP0320	3.4±0.3	3.2±0.3	1.8±0.2	1.2±0.2	0.7±0.2

Electrical Characteristics For HIP0320 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP0320-R33M	0.33	21	10	8
HIP0320-R47M	0.47	23	9	7
HIP0320-R68M	0.68	29	7	5.5
HIP0320-1R0M	1.0	38	5	4
HIP0320-1R5M	1.5	50	4	3.8
HIP0320-2R2M	2.2	75	3.7	3.5
HIP0320-3R3M	3.3	145	3.5	3
HIP0320-4R7M	4.7	200	3	2.6
HIP0320-5R6M	5.6	238	2.6	2.2
HIP0320-6R8M	6.8	300	2.2	1.9
HIP0320-8R2M	8.2	390	1.9	1.6
HIP0320-100M	10	422	1.6	1.4

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Package Quantity

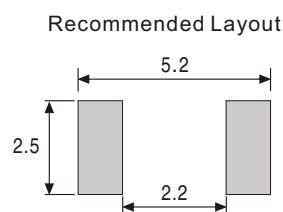
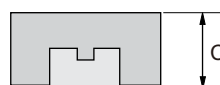
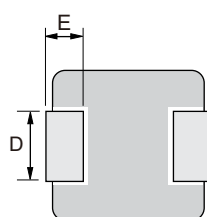
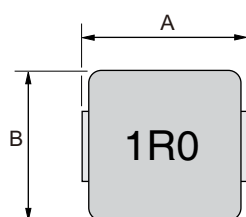
- 3000 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HIP0420	4.4±0.35	4.2±0.25	1.8±0.2	2.0±0.3	0.8±0.3

Electrical Characteristics For HIP0420 Series @ 25°C

Part Number	Inductance (μH)	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP0420-R10N	0.10 ±30%	4.0	35.0	12.0
HIP0420-R18N	0.18 ±30%	5.4	28.0	11.5
HIP0420-R22N	0.22 ±30%	7.3	24.0	11.0
HIP0420-R33M	0.33 ±30%	8.6	18.0	10.0
HIP0420-R47M	0.47 ±20%	14.0	12.0	8.0
HIP0420-R56M	0.56 ±20%	14.0	10.0	7.3
HIP0420-R68M	0.68 ±20%	19.0	10.0	7.0
HIP0420-1R0M	1.0 ±20%	27.5	8.5	5.0
HIP0420-1R2M	1.2 ±20%	30.0	7.8	4.8
HIP0420-1R5M	1.5 ±20%	42.0	7.0	4.5
HIP0420-2R2M	2.2 ±20%	61.0	6.0	4.0
HIP0420-3R3M	3.3 ±20%	90.0	4.0	3.5
HIP0420-4R7M	4.7 ±20%	105.0	3.5	2.6
HIP0420-5R6M	5.6 ±20%	125.0	3.0	2.2
HIP0420-6R8M	6.8 ±20%	172.0	2.8	2.1
HIP0420-8R2M	8.2 ±20%	180.0	2.5	2.0
HIP0420-100M	10.0 ±20%	243.0	2.3	1.8
HIP0420-150M	15.0 ±20%	374.0	1.9	1.5
HIP0420-220M	22.0 ±20%	500.0	1.4	1.2

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Package Quantity

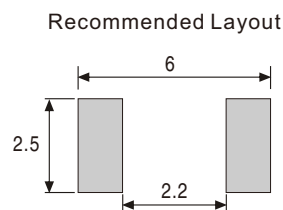
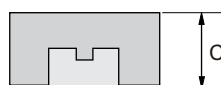
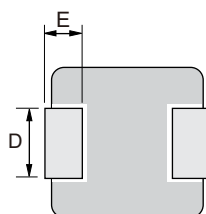
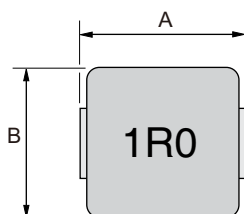
- 2000 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HIP0520	5.7±0.3	5.2±0.2	1.8±0.2	2.0±0.3	1.2±0.2

Electrical Characteristics For HIP0520 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP0520-R22M	0.22	5.5	25	15
HIP0520-R33M	0.33	7.3	21.3	12
HIP0520-R47M	0.47	8.6	18	11.5
HIP0520-R68M	0.68	12.4	12.8	10
HIP0520-1R0M	1.0	20	13.7	7
HIP0520-1R5M	1.5	30.5	9.8	5.5
HIP0520-2R2M	2.2	50	9	4.2
HIP0520-3R3M	3.3	76	7.3	3.3
HIP0520-4R7M	4.7	116	5	2.8
HIP0520-6R8M	6.8	150	3.8	2.4
HIP0520-8R2M	8.2	171	3.5	2.3
HIP0520-100M	10	199	3.4	2.3
HIP0520-150M	15	270	2.8	1.9
HIP0520-220M	22	390	1.8	1.5

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Package Quantity

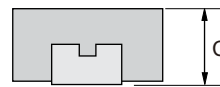
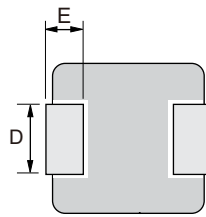
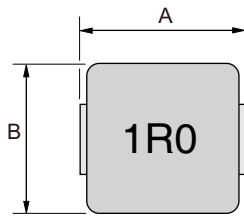
- 2000 pcs/reel

General Specifications

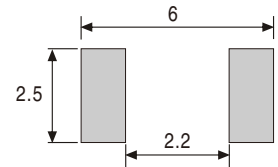
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HIP0530	5.7±0.3	5.2±0.2	2.8±0.2	2.0±0.3	1.2±0.2

Electrical Characteristics For HIP0530 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP0530-R22M	0.22	4.4	21	15.5
HIP0530-R33M	0.33	5	18	14
HIP0530-R47M	0.47	7.4	16	12
HIP0530-R68M	0.68	12	14	8.5
HIP0530-R82M	0.82	13	12.5	8
HIP0530-1R0M	1.0	14	11	7
HIP0530-1R5M	1.5	25	10	6
HIP0530-2R2M	2.2	35	9	5.5
HIP0530-3R3M	3.3	38	8	5
HIP0530-4R7M	4.7	53	6	4.6
HIP0530-5R6M	5.6	63	4.5	4.25
HIP0530-6R8M	6.8	76.2	4.3	4
HIP0530-100M	10	128	3.5	2.75
HIP0530-150M	15	190	2.6	2.1
HIP0530-220M	22	250	1.7	1.9

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Package Quantity

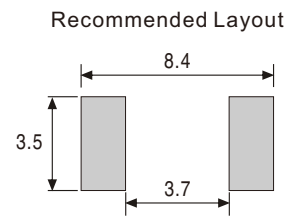
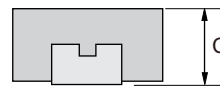
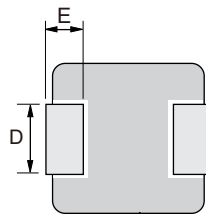
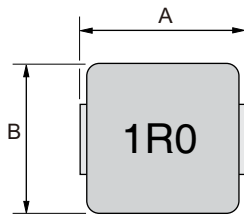
- 2000 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HIP0618	7.3±0.3	6.6±0.3	1.6±0.2	3.0±0.3	1.6±0.3

Electrical Characteristics For HIP0618 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP0618-R22M	0.22	3	26	16
HIP0618-R33M	0.33	5.8	22	14
HIP0618-R47M	0.47	7.4	18	12
HIP0618-R68M	0.68	11	17	10
HIP0618-R82M	0.82	14	15.5	8.5
HIP0618-1R0M	1.0	17	14	7
HIP0618-1R5M	1.5	25.2	13	6
HIP0618-2R2M	2.2	35	11	6
HIP0618-3R3M	3.3	46	9	5
HIP0618-4R7M	4.7	76	7	4
HIP0618-6R8M	6.8	104	5.5	3
HIP0618-100M	10	160	3.5	2.3

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Package Quantity

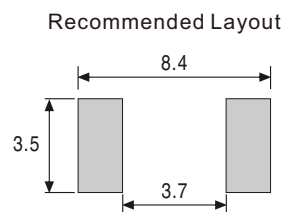
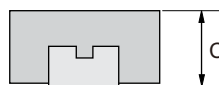
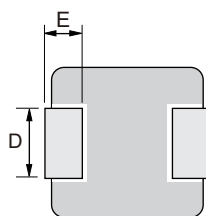
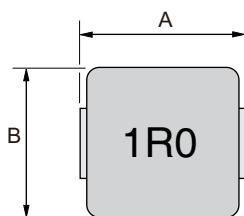
- 1500 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HIP0624	7.3±0.3	6.6±0.3	2.2±0.2	3.0±0.3	1.6±0.3

Electrical Characteristics For HIP0624 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP0624-R15M	0.15	2.3	45	30
HIP0624-R22M	0.22	3.2	34	21
HIP0624-R33M	0.33	4.4	30	18
HIP0624-R47M	0.47	5.1	26	15
HIP0624-R68M	0.68	7.2	21	13
HIP0624-R82M	0.82	9.5	17	11
HIP0624-1R0M	1.0	13.5	16	10
HIP0624-1R5M	1.5	20	15	9
HIP0624-2R2M	2.2	28	14	7
HIP0624-3R3M	3.3	39	10	6
HIP0624-4R7M	4.7	50	9	5.5
HIP0624-6R8M	6.8	72	7	4
HIP0624-100M	10	101	5	3.2

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Package Quantity

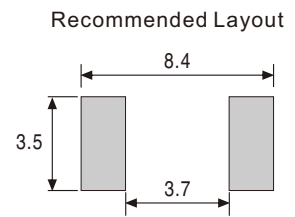
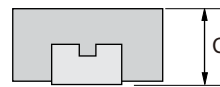
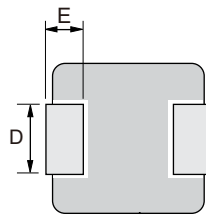
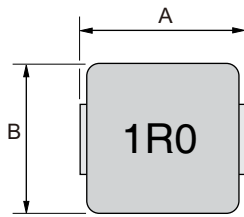
- 1500 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HIP0630	7.3±0.3	6.6±0.3	2.8±0.2	3.0±0.3	1.6±0.3

Electrical Characteristics For HIP0630 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP0630-R10N	0.1±30%	1.7	60	32.5
HIP0630-R15M	0.15	1.9	45	27
HIP0630-R22M	0.22	2.8	40	23
HIP0630-R33M	0.33	3.9	32	20
HIP0630-R47M	0.47	4.2	26	17.5
HIP0630-R56M	0.56	5	25.5	16.5
HIP0630-R68M	0.68	5.5	25	15.5
HIP0630-R82M	0.82	8	24	13
HIP0630-1R0M	1.0	10	22	11
HIP0630-1R5M	1.5	15	18	9
HIP0630-2R2M	2.2	20	14	8
HIP0630-3R3M	3.3	30	13.5	6
HIP0630-4R7M	4.7	40	10	5.5
HIP0630-5R6M	5.6	48	9	5
HIP0630-6R8M	6.8	60	8	4.5
HIP0630-8R2M	8.2	68	7.5	4
HIP0630-100M	10	85	6	3.5
HIP0630-150M	15	123	4	3
HIP0630-220M	22	190	3.5	2
HIP0630-330M	33	240	2.5	2
HIP0630-470M	47	363	2	1.75

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Package Quantity

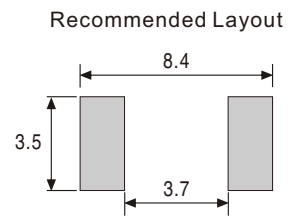
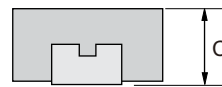
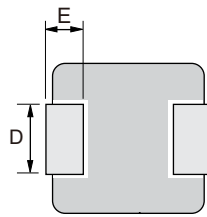
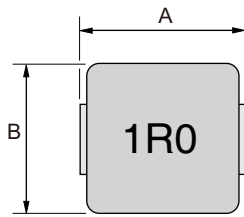
- 1000 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HIP0650	7.3±0.3	6.6±0.3	4.8±0.2	3.0±0.3	1.6±0.3

Electrical Characteristics For HIP0650 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP0650-R22M	0.22	1.9	35	25
HIP0650-R33M	0.33	3	32	25
HIP0650-R47M	0.47	3.9	30	22
HIP0650-R68M	0.68	4.5	24	18
HIP0650-R82M	0.82	4.9	22	16.5
HIP0650-1R0M	1.0	6.5	20	15
HIP0650-1R2M	1.2	7.5	18	14
HIP0650-1R5M	1.5	9	16.5	12
HIP0650-2R2M	2.2	12	14	10
HIP0650-3R3M	3.3	20.9	12	8
HIP0650-4R7M	4.7	30.8	10	6.5
HIP0650-5R6M	5.6	49	9	6
HIP0650-6R8M	6.8	51.5	8.5	5.5
HIP0650-8R2M	8.2	63	8	5
HIP0650-100M	10	69	7.5	4
HIP0650-150M	15	92	6	3.5
HIP0650-220M	22	170	5.5	2.5
HIP0650-330M	33	200	3.5	2



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Package Quantity

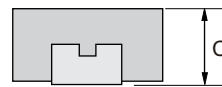
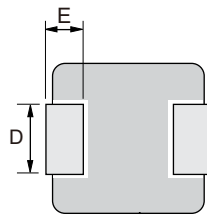
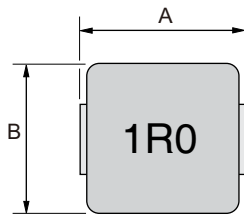
- 800 pcs/reel

General Specifications

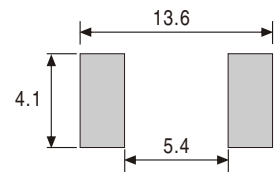
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HIP1030	11.0±0.5	10.0±0.3	2.8±0.2	3.0±0.5	2.0±0.5

Electrical Characteristics For HIP1030 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP1030-1R0M	1.0	6	20	15
HIP1030-3R3M	3.3	16	14	9
HIP1030-4R7M	4.7	22.5	13	7
HIP1030-100M	10	55	8	5

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Package Quantity

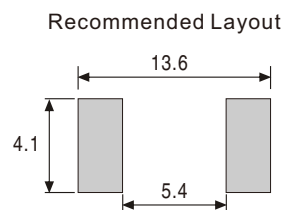
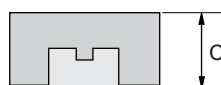
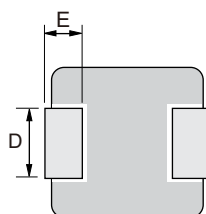
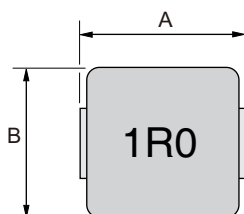
- 500 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HIP1040	11.0±0.5	10.0±0.3	3.8±0.2	3.0±0.5	2.0±0.5

Electrical Characteristics For HIP1040 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP1040-R22M	0.22	1	60	35
HIP1040-R36M	0.36	1.2	60	31
HIP1040-R45M	0.45	1.5	45	29
HIP1040-R47M	0.47	1.5	43	28
HIP1040-R56M	0.56	1.8	40	25
HIP1040-R68M	0.68	2.7	39	22
HIP1040-1R0M	1.0	3.3	36	18
HIP1040-1R5M	1.5	4.6	33	16
HIP1040-2R2M	2.2	7	27	12
HIP1040-3R3M	3.3	11.8	20	11
HIP1040-4R7M	4.7	15.5	17	10
HIP1040-5R6M	5.6	19.3	14	9
HIP1040-6R8M	6.8	23.3	13.5	8.5
HIP1040-100M	10	30	12	7.5
HIP1040-150M	15	45	10	6.25
HIP1040-220M	22	74	7	5
HIP1040-330M	33	112	5	3.5
HIP1040-470M	47	167	4.5	3



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Note

- HIP1235-R47M~R82M Dimensions D:3.85±0.5
- HIP1235-1R0M~470M Dimensions D:4.7±0.5

General Specifications

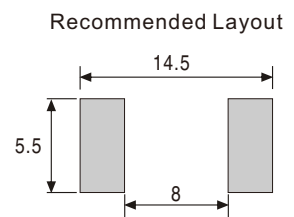
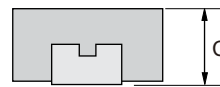
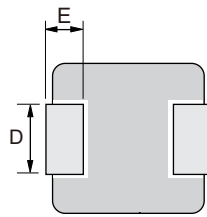
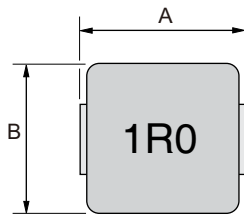
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Package Quantity

- 500 pcs/reel



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HIP1235	13.5±0.5	12.6±0.3	3.3±0.2	3.85±0.5 / 4.7±0.5	2.0±0.5

Electrical Characteristics For HIP1235 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP1235-R47M	0.47	2	55	32
HIP1235-R68M	0.68	2.5	49	28
HIP1235-R82M	0.82	3	44	25
HIP1235-1R0M	1.0	3.5	40	24
HIP1235-1R5M	1.5	5.5	35	19
HIP1235-2R2M	2.2	8	29	16
HIP1235-3R3M	3.3	12	27	12
HIP1235-4R7M	4.7	18	22	10
HIP1235-5R6M	5.6	22	19	9.5
HIP1235-6R8M	6.8	24	18	9
HIP1235-8R2M	8.2	28	16	8.5
HIP1235-100M	10	34	14	7.5
HIP1235-150M	15	65	10	6.5
HIP1235-220M	22	99	7	4.5
HIP1235-330M	33	160	6	3.5
HIP1235-470M	47	218	5.5	3



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Note

- HIP1260-R47M~1R5M Dimensions D:3.85±0.5
- HIP1260-2R2M~151M Dimensions D:4.7±0.5

General Specifications

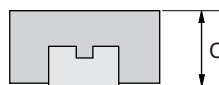
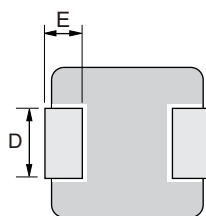
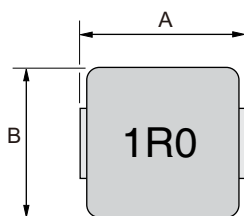
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Package Quantity

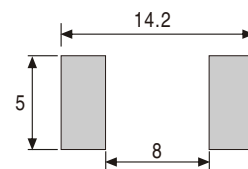
- 500 pcs/reel



Shape and Dimensions (Unit:mm)



Recommended Layout



Type	A	B	C	D	E
HIP1260	13.5±0.5	12.6±0.3	5.7±0.3	3.85±0.5 / 4.7±0.5	2.0±0.5

Electrical Characteristics For HIP1260 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP1260-R47M	0.47	1.3	64	38
HIP1260-R68M	0.68	1.7	57	33
HIP1260-1R0M	1.0	2.4	53	29
HIP1260-1R5M	1.5	3.2	50	26
HIP1260-2R2M	2.2	4.7	43	21
HIP1260-3R3M	3.3	7.1	35	17
HIP1260-4R7M	4.7	11.5	30	16
HIP1260-6R8M	6.8	13.8	25	15
HIP1260-8R2M	8.2	16	23	11
HIP1260-100M	10	20.7	21	11
HIP1260-150M	15	29	16	9
HIP1260-220M	22	39.5	14	8
HIP1260-330M	33	75	12	6
HIP1260-470M	47	90	11	5.5
HIP1260-680M	68	140	9	5
HIP1260-820M	82	161	8.5	4.5
HIP1260-101M	100	200	8	4
HIP1260-121M	120	235	7	3.5
HIP1260-151M	150	350	6	3



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Note

- HIP1265-R47M~1R5M Dimensions D:3.85±0.5
- HIP1265-2R2M~680M Dimensions D:4.7±0.5

General Specifications

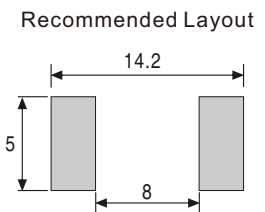
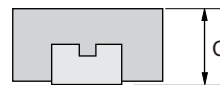
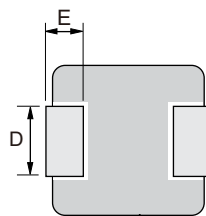
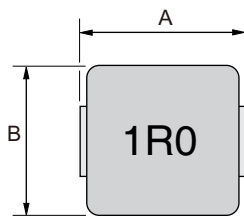
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Package Quantity

- 500 pcs/reel



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HIP1265	13.5±0.5	12.6±0.3	6.2±0.3	3.85±0.5 / 4.7±0.5	2.0±0.5

Electrical Characteristics For HIP1265 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP1265-R47M	0.47	1.2	63	41
HIP1265-R68M	0.68	1.5	55	35
HIP1265-1R0M	1.0	2.3	48	30
HIP1265-1R5M	1.5	3	45	27
HIP1265-2R2M	2.2	4.2	37	22
HIP1265-3R3M	3.3	6.8	30	18
HIP1265-4R7M	4.7	8.4	28	13.5
HIP1265-6R8M	6.8	11.5	18	11.5
HIP1265-8R2M	8.2	15.5	16	10.5
HIP1265-100M	10	16.5	15.5	10
HIP1265-150M	15	28	13	9
HIP1265-220M	22	37	12	9
HIP1265-330M	33	58	11	8
HIP1265-470M	47	90	9.5	6.5
HIP1265-680M	68	130	7.8	4.8

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Package Quantity

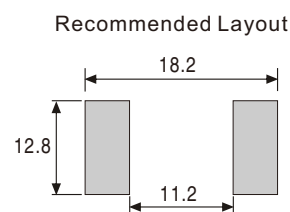
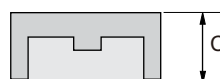
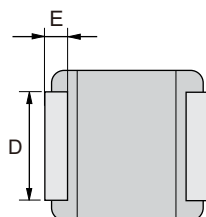
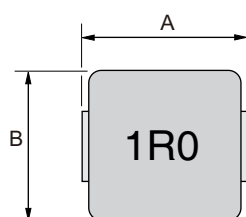
- 200 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HIP1770	17.5±0.5	17.0±0.3	7.0Max	12.0±0.3	2.5±0.5

Electrical Characteristics For HIP1770 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP1770-1R0M	1.0	2	70	52
HIP1770-1R5M	1.5	2.5	65	47
HIP1770-2R2M	2.2	2.7	62	43.5
HIP1770-3R3M	3.3	3.9	54	28
HIP1770-4R7M	4.7	5.5	50	25
HIP1770-6R8M	6.8	9.2	39	19
HIP1770-8R2M	8.2	10.8	31	18
HIP1770-100M	10	13	29	16.5
HIP1770-150M	15	20.5	27	12.5
HIP1770-220M	22	26.5	23	12
HIP1770-330M	33	44	20	10.7
HIP1770-390M	39	48	18	9.2
HIP1770-470M	47	55	16	8.7
HIP1770-560M	56	62	15	7.8
HIP1770-680M	68	80	13	7
HIP1770-101M	100	118	12	5.3

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- Shielded Construction
- Core Material: Carbonyl powder core
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

Package Quantity

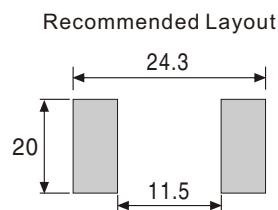
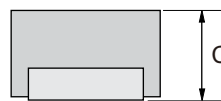
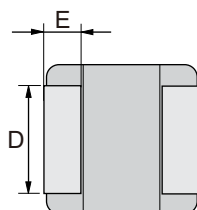
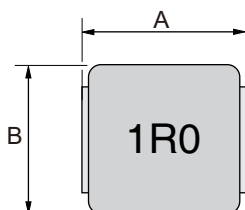
- 100 pcs/reel

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
HIP2213	22.5±0.5	22±0.3	13.0Max	18.6±0.3	5.0±0.5

Electrical Characteristics For HIP2213 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP2213-1R0M	1.0	0.89	71.0	69.0
HIP2213-1R5M	1.5	1.20	53.0	65.0
HIP2213-2R2M	2.2	1.25	48.0	58.0
HIP2213-3R3M	3.3	1.80	41.0	49.0
HIP2213-4R7M	4.7	1.84	37.0	47.0
HIP2213-5R6M	5.6	2.50	36.5	40.0
HIP2213-6R8M	6.8	3.09	36.0	36.0
HIP2213-100M	10	4.14	28.0	28.0
HIP2213-150M	15	6.11	24.0	23.5
HIP2213-220M	22	10.8	16.0	17.5
HIP2213-330M	33	15.4	15.5	15.5
HIP2213-470M	47	17.7	13.0	13.5
HIP2213-560M	56	28.0	12.0	13.0
HIP2213-680M	68	29.5	11.0	12.5
HIP2213-750M	75	31.6	10.0	12.0
HIP2213-820M	82	34.2	9.0	10.2
HIP2213-101M	100	39.4	8.0	9.1
HIP2213-151M	150	80.0	7.0	6.0
HIP2213-201M	200	105	7.0	5.0
HIP2213-221M	220	125	6.0	4.5
HIP2213-401M	400	230	6.0	4.0

- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current



Features

- High current; very low DCR
- Soft saturation makes them
- AEC-Q200 Grade 1 (-40°C to +125°C)

Package

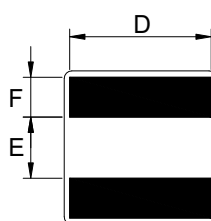
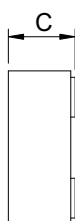
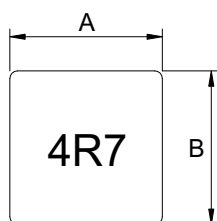
- MXAL4020 - 3000 PCS/Reel
- MXAL4030 - 2000 PCS/Reel

General Specifications

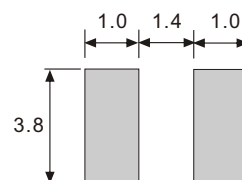
- Inductance tested at 100kHz, 0.1Vrms
- Isat: Inductance 30% drop max at DC current.
- Irms: Current that cause 40°C rise from 25°C



► Dimensions & Configurations (Unit:mm)



Recommended Layout



Type	A (±0.3)	B (±0.3)	C (Max.)	D (±0.3)	E (±0.3)	F (±0.3)
MXAL4020	4.1	4.1	2.1	3.4	1.7	0.88
MXAL4030	4.1	4.1	3.1	3.4	1.7	0.88

► Electrical Characteristics For MXAL4020/4030 Series

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Max.	Irms (A) Typ.
MXAL4020-R10M	0.1	2.42	33	18
MXAL4020-R22M	0.22	4.6	18.8	16.8
MXAL4020-R36M	0.36	6.3	15	14.5
MXAL4020-R40M	0.4	7.73	13.5	14
MXAL4020-R47M	0.47	8.58	13	12.5
MXAL4020-R56M	0.56	9.3	12.6	12
MXAL4020-R60M	0.6	9.52	12.3	11.7
MXAL4020-R72M	0.72	11.6	10.6	10.5
MXAL4020-1R0M	1	14.6	8.8	9.6
MXAL4020-1R2M	1.2	17.9	7.8	9
MXAL4020-1R5M	1.5	23.5	7.4	7.6
MXAL4020-1R8M	1.8	28	7	7
MXAL4020-2R2M	2.2	38.7	6	5.6
MXAL4030-R47M	0.47	7.26	15	14
MXAL4030-R90M	0.9	10.1	9	11.2
MXAL4030-1R0M	1	10.1	9.2	11
MXAL4030-1R2M	1.2	11.5	8.7	9.8
MXAL4030-1R5M	1.5	13.2	7	9
MXAL4030-2R2M	2.2	22.6	6.1	7.8
MXAL4030-3R3M	3.3	28.6	5.3	6.6



Features

- High current; very low DCR
- Soft saturation makes them
- AEC-Q200 Grade 1 (-40°C to +125°C)

Package

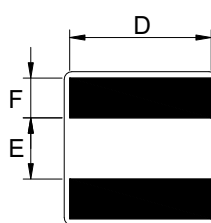
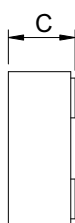
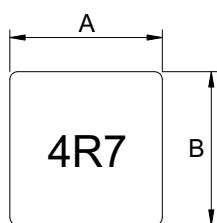
- MXAL5020 - 3000 PCS/Reel
- MXAL5030 - 2000 PCS/Reel
- MXAL5050 - 1500 PCS/Reel

General Specifications

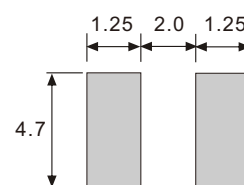
- Inductance tested at 100kHz, 0.1Vrms
- Isat: Inductance 30% drop max at DC current.
- Irms: Current that cause 40°C rise from 25°C



Dimensions & Configurations (Unit:mm)



Recommended Layout



Type	A (±0.2)	B (±0.2)	C (Max.)	D (±0.3)	E (±0.3)	F (±0.3)
MXAL5020	5.5	5.3	2.1	4.3	2.3	1.1
MXAL5030	5.5	5.3	3.1	4.3	2.3	1.1
MXAL5050	5.5	5.3	5.1	4.3	2.3	1.1

Electrical Characteristics For MXAL5020/5030/5050 Series

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Max.	Irms (A) Typ.
MXAL5020-R16M	0.16	4.6	27	18.8
MXAL5020-R33M	0.33	7	24	14.4
MXAL5020-R56M	0.56	9.54	16	13.9
MXAL5020-R80M	0.8	11.8	13.5	13
MXAL5020-1R0M	1	13.8	12.8	10.5
MXAL5020-1R2M	1.2	16.3	12.2	9.4
MXAL5020-1R5M	1.5	18.7	11.7	8.8
MXAL5030-R16M	0.16	2.33	32	22.2
MXAL5030-R33M	0.33	3.52	26	19.2
MXAL5030-R60M	0.6	4.52	20	17.7
MXAL5030-R80M	0.8	5.65	18	13.1
MXAL5030-1R0M	1	7.6	14.3	12.2
MXAL5030-1R2M	1.2	9.7	13.5	11
MXAL5030-2R2M	2.2	14.5	9	9.7
MXAL5030-3R3M	3.3	23.1	8.7	8.1
MXAL5030-4R7M	4.7	36.3	7	5.9
MXAL5050-5R6M	5.6	24.2	7.2	7.2
MXAL5050-6R8M	6.8	28.6	6.6	6.4
MXAL5050-8R2M	8.2	32.5	6.1	6.1
MXAL5050-100M	10	43	5.4	5



Features

- High current; very low DCR
- Soft saturation makes them
- AEC-Q200 Grade 1 (-40°C to +125°C)

Package

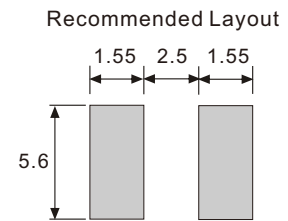
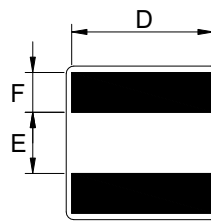
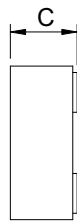
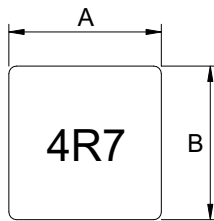
- MXAL6030 - 1000 PCS/Reel

General Specifications

- Inductance tested at 100kHz, 0.1Vrms
- Isat: Inductance 30% drop max at DC current.
- Irms: Current that cause 40°C rise from 25°C



► Dimensions & Configurations (Unit:mm)



Type	A (±0.2)	B (±0.2)	C (Max.)	D (±0.3)	E (±0.3)	F (±0.3)
MXAL6030	6.6	6.4	3.1	5.3	2.6	1.4

► Electrical Characteristics For MXAL6030 Series

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Max.	Irms (A) Typ.
MXAL6030-R18M	0.18	1.75	36	32
MXAL6030-R33M	0.33	2.5	28	25
MXAL6030-R56M	0.56	3.31	25	22
MXAL6030-R68M	0.68	5.17	21	20
MXAL6030-1R0M	1	6.05	18	18
MXAL6030-1R2M	1.2	7.4	16	16
MXAL6030-1R5M	1.5	9.13	15.5	15
MXAL6030-1R8M	1.8	10.2	13	14
MXAL6030-2R2M	2.2	12.2	11	10
MXAL6030-3R3M	3.3	20.8	9	8
MXAL6030-4R5M	4.5	25.3	8	7



Features

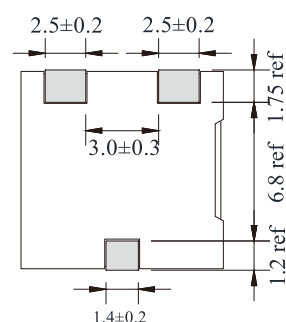
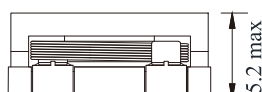
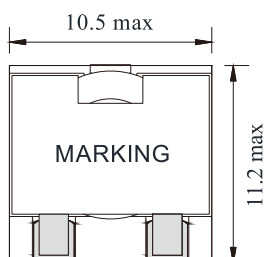
- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Assemblage design, sturdy structure.
- Small volume, high current, low magnetic loss, low ESR, small parasitic capacitance.
- Low power loss, suitable for applications of wide temperature and frequency range.

General Specifications

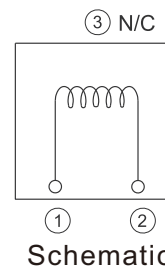
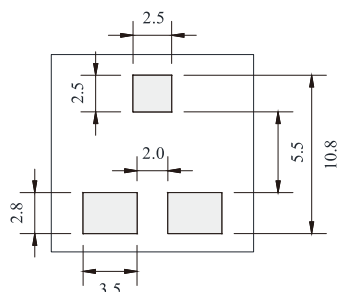
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C



Shape and Dimensions (Unit:mm)



Recommended Layout



Electrical Characteristics For SER1052 Series @ 25°C

Part Number	Inductance (μH) @ 100KHz, 0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	Isat (A) Typ. L 30% drop	Irms (A) Typ. 40°C rise
SER1052-R80M	0.8 ±20%	3.2	4.0	25.6	16.3
SER1052-1R0M	1.0 ±20%	3.2	4.0	17.5	16.3
SER1052-1R2M	1.2 ±20%	5.2	6.0	21.3	15.0
SER1052-1R3M	1.3 ±20%	3.2	4.0	17.2	16.3
SER1052-1R5M	1.5 ±20%	3.2	4.0	14.5	16.3
SER1052-1R8M	1.8 ±20%	5.2	6.0	14.3	15.0
SER1052-2R0M	2.0 ±20%	8.1	9.0	16.2	11.5
SER1052-2R2M	2.2 ±20%	3.2	4.0	10.0	16.3
SER1052-2R5M	2.5 ±20%	6.6	7.5	12.1	12.0
SER1052-3R2M	3.2 ±20%	5.2	6	8.5	15.0
SER1052-4R0M	4.0 ±20%	8.1	9	8.8	11.5
SER1052-4R3M	4.3 ±20%	6.6	7.5	7.0	12.0
SER1052-5R7M	5.7 ±20%	8.1	9	6.0	11.5



Features

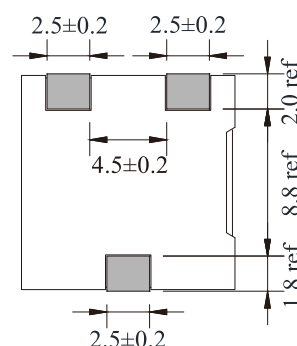
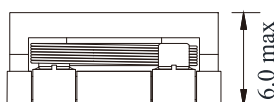
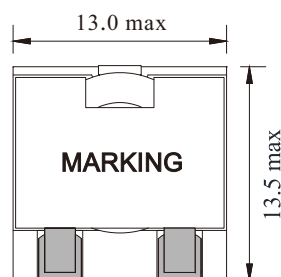
- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Assemblage design, sturdy structure.
- Small volume, high current, low magnetic loss, low ESR, small parasitic capacitance.
- Low power loss, suitable for applications of wide temperature and frequency range.

General Specifications

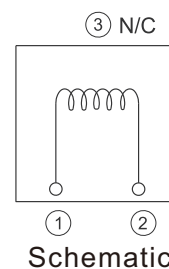
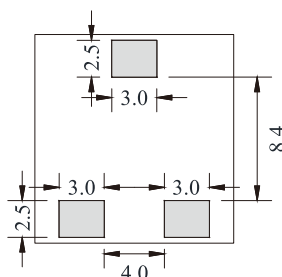
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C



Shape and Dimensions (Unit:mm)



Recommended Layout



Electrical Characteristics For SER1360 Series @ 25°C

Part Number	Inductance (μH) @100KHz, 0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	Isat (A) Typ. L 30% drop	Irms (A) Typ. 40°C rise
SER1360-1R0M	1.0 ±20%	2.3	2.6	33.5	13.0
SER1360-2R2M	2.2 ±20%	2.3	2.6	18.0	13.0
SER1360-2R7M	2.7 ±20%	2.3	2.6	14.0	13.0
SER1360-3R3M	3.3 ±20%	5.5	6.0	13.5	9.4
SER1360-4R7M	4.7 ±20%	5.5	6.0	12.0	9.4
SER1360-6R8M	6.8 ±20%	5.5	6.0	9.5	9.4
SER1360-8R2M	8.2 ±20%	9.8	10.8	9.0	7.6
SER1360-100K	10 ±10%	9.8	10.8	7.5	7.6



Features

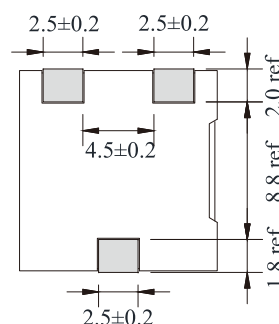
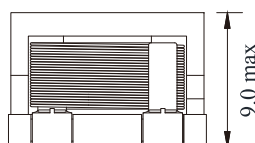
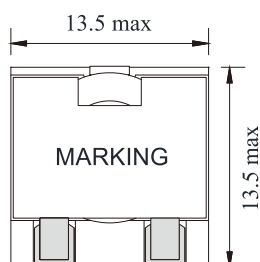
- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Assemblage design, sturdy structure.
- Small volume, high current, low magnetic loss, low ESR, small parasitic capacitance.
- Low power loss, suitable for applications of wide temperature and frequency range.

General Specifications

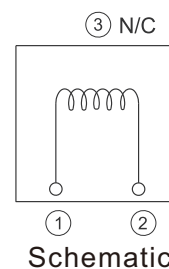
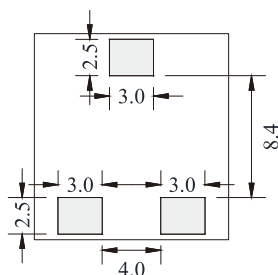
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C



Shape and Dimensions (Unit:mm)



Recommended Layout



Electrical Characteristics For SER1360 Series @ 25°C

Part Number	Inductance (μH) @100KHz, 0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	Isat (A) Typ. L 30% drop	Irms (A) Typ. 40°C rise
SER1390-100K	10 ±10%	14	15.0	13.2	9.2
SER1390-150K	15 ±10%	14	15.0	8.7	9.2
SER1390-220K	22 ±10%	21	23.0	7.4	7.7
SER1390-330K	33 ±10%	21	23.0	4.8	7.7
SER1390-470K	47 ±10%	21	23.0	3.2	7.7



Features

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Assemblage design, sturdy structure.
- High Current, Low resistance

General Specifications

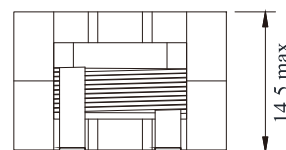
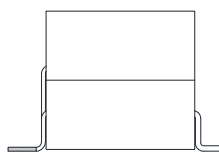
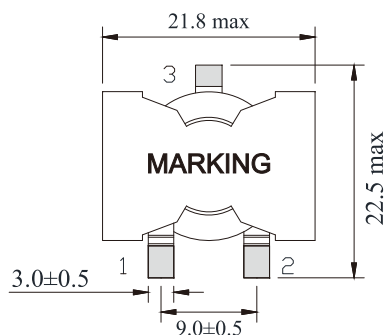
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C

Applications

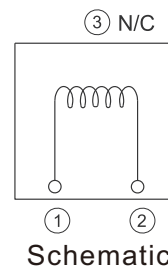
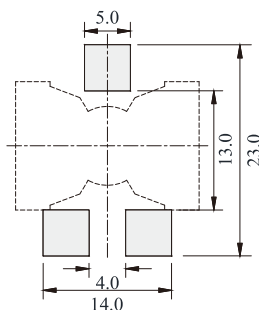
- Storage inductor for high efficiency DC/DC converters with high ripple currents
- Resonant SMPS
- Filter for audio applications



Shape and Dimensions (Unit:mm)



Recommended Layout



Electrical Characteristics For SPQ2014 Series @ 25°C

Part Number	Inductance (μH) @100KHz, 0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	Isat (A) Typ. L 30% drop	Irms (A) Typ. 40°C rise
SPQ2014-R70M	0.7 ±20%	0.66	0.79	75.0	32.0
SPQ2014-1R4M	1.4 ±20%	0.86	1.02	60.0	31.5
SPQ2014-2R2M	2.2 ±20%	1.32	1.58	52.0	30.5
SPQ2014-3R1M	3.1 ±20%	1.92	2.30	45.0	26.0
SPQ2014-4R2M	4.2 ±20%	2.54	3.04	38.0	24.0
SPQ2014-5R5M	5.5 ±20%	3.30	3.96	33.0	22.0
SPQ2014-7R0M	7.0 ±20%	4.25	5.10	30.0	21.0
SPQ2014-8R6M	8.6 ±20%	5.90	7.08	25.0	17.0
SPQ2014-100M	10 ±20%	6.50	7.80	23.0	16.0
SPQ2014-150M	15 ±20%	7.10	8.50	21.0	14.0
SPQ2014-220M	22 ±20%	8.60	10.3	15.0	12.5
SPQ2014-330M	33 ±20%	9.28	11.1	11.0	12.0
SPQ2014-470M	47 ±20%	10.0	12.0	8.50	11.5



Features

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Assemblage design, sturdy structure.
- High Current, Low resistance

General Specifications

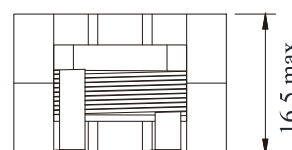
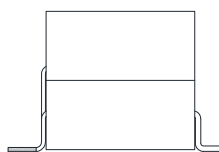
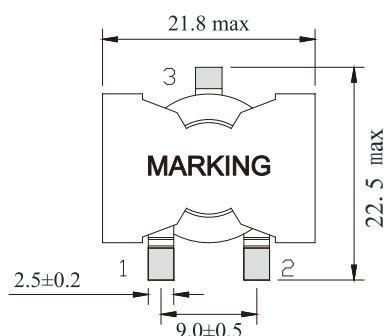
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C

Applications

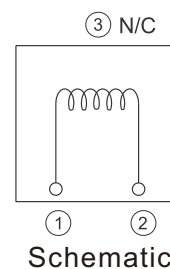
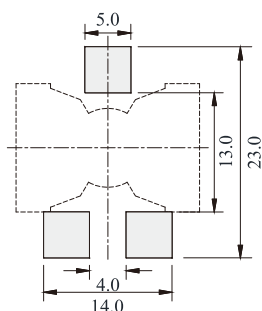
- Storage inductor for high efficiency DC/DC converters with high ripple currents
- Resonant SMPS
- Filter for audio applications



Shape and Dimensions (Unit:mm)



Recommended Layout



Electrical Characteristics For SPQ2016 Series @ 25°C

Part Number	Inductance (μH) @100KHz, 0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	Isat (A) Typ. L 20% drop	Irms (A) Typ. 40°C rise
SPQ2016-4R7M	4.7 ±20%	3.30	4.00	42.0	21.0
SPQ2016-6R8M	6.8 ±20%	3.57	4.30	30.0	20.0
SPQ2016-8R2M	8.2 ±20%	3.57	4.30	25.0	20.0
SPQ2016-100M	10 ±20%	5.28	6.30	24.0	16.0
SPQ2016-220M	22 ±20%	5.28	6.30	10.0	16.0
SPQ2016-330M	33 ±20%	13.0	15.0	9.00	12.0
SPQ2016-470M	47 ±20%	13.0	15.0	6.50	12.0



Features

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Assemblage design, sturdy structure.
- High Current, Low resistance

General Specifications

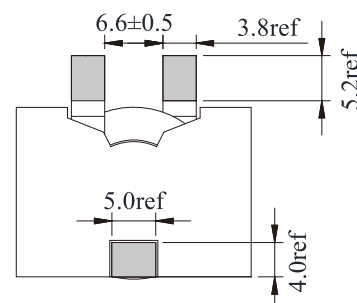
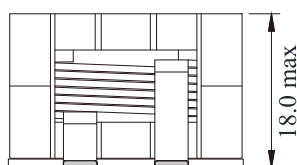
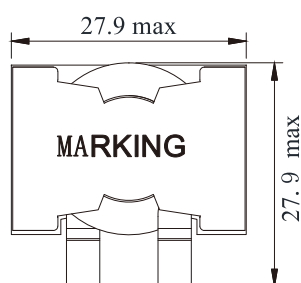
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C

Applications

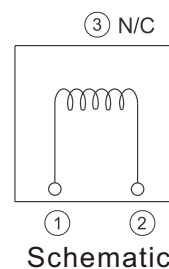
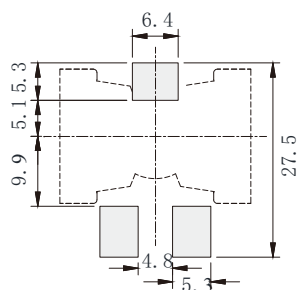
- Storage inductor for high efficiency DC/DC converters with high ripple currents
- Resonant SMPS
- Filter for audio applications



Shape and Dimensions (Unit:mm)



Recommended Layout



Electrical Characteristics For SPQ2918 Series @ 25°C

Part Number	Inductance (μH) @100KHz, 0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	Isat (A) Typ. L 20% drop	Irms (A) Typ. 40°C rise
SPQ2918-3R3M	3.3 ±20%	2.3	2.86	92.5	28
SPQ2918-4R7M	4.7 ±20%	2.3	2.86	61.2	28
SPQ2918-6R8M	6.8 ±20%	2.3	2.86	45.0	28
SPQ2918-100K	10 ±10%	2.3	2.86	31.2	28
SPQ2918-150K	15 ±10%	2.3	2.86	21.2	28
SPQ2918-220K	22 ±10%	2.3	2.86	14.0	28
SPQ2918-330K	33 ±10%	2.3	2.86	8.7	28



Features

- Small size and low profile.
- High common mode impedance at high suppression performance
- Excellent solder ability

General Specifications

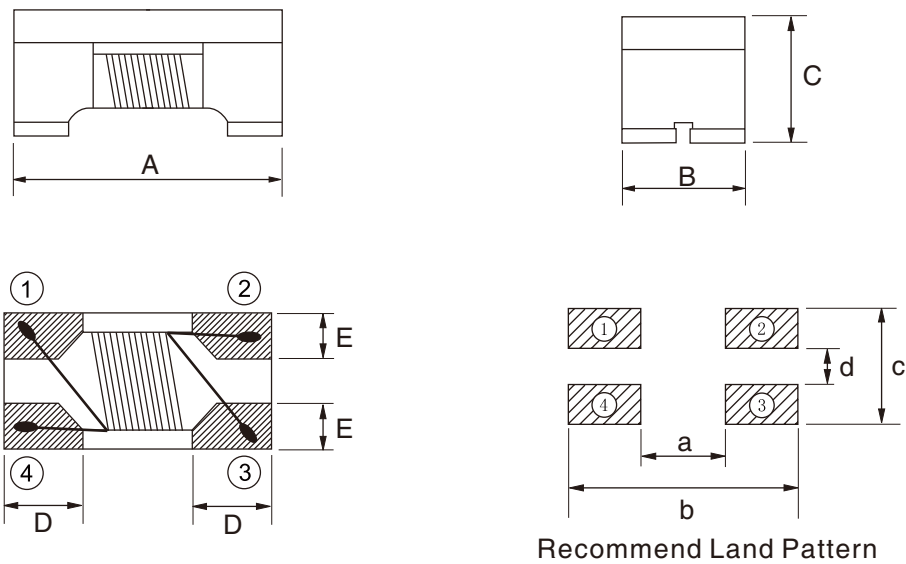
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +85°C
- Temperature Rise: 40°C max. at IDC

Applications

- USB2.0 of IEEE1394, PC
- Power switch and servers
- LVDS lines of Note PC, LCD
- Audio lines

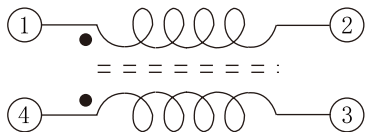


► **Dimensions & Configurations (Unit:mm)**



Type	A±0.2	B±0.2	C±0.2	D(Typ)	E(Typ)	a	b	c	d
MSWC2012	2.0	1.2	1.2	0.5	0.5	1.2	2.6	1.2	0.4

► **Schematic**



Electrical Characteristics For MSWC2012 Series

Part Number	Impedance @100MHz (Ω) Tolerance($\pm 25\%$)	DCR Max. (m Ω)	Idc Max. (mA)	Rated Voltage (V)	Insulation Resistance (M Ω) Min.
MSWC2012-300	30	200	450	50	10
MSWC2012-500	50	250	550	50	10
MSWC2012-750	75	250	400	50	10
MSWC2012-900	90	300	400	50	10
MSWC2012-101	100	300	400	50	10
MSWC2012-121	120	300	400	50	10
MSWC2012-161	160	350	350	50	10
MSWC2012-181	180	350	350	50	10
MSWC2012-201	200	350	300	50	10
MSWC2012-221	220	350	300	50	10
MSWC2012-251	250	400	300	50	10
MSWC2012-261	260	400	300	50	10
MSWC2012-301	300	400	290	50	10
MSWC2012-361	360	400	300	50	10
MSWC2012-371	370	450	280	50	10
MSWC2012-481	480	550	200	50	10
MSWC2012-501	500	550	200	50	10
MSWC2012-601	600	550	300	50	10
MSWC2012-671	670	600	180	50	10
MSWC2012-681	680	700	180	50	10
MSWC2012-751	750	800	150	50	10
MSWC2012-801	800	880	150	50	10
MSWC2012-901	900	1000	100	50	10
MSWC2012-102	1000	1000	100	50	10



Features

- Small size and low profile.
- High common mode impedance at high suppression performance
- Excellent solder ability

General Specifications

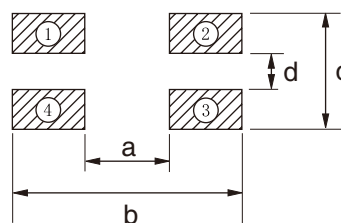
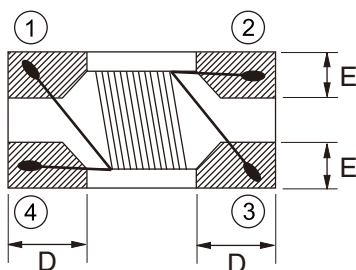
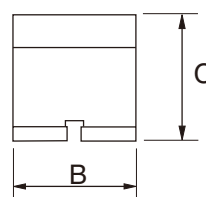
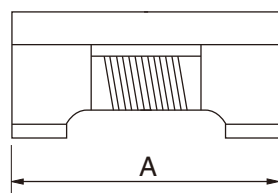
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +85°C
- Temperature Rise: 40°C max. at IDC

Applications

- USB2.0 of IEEE1394, PC
- Power switch and servers
- LVDS lines of Note PC, LCD
- Audio lines



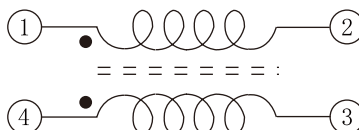
Dimensions & Configurations (Unit:mm)



Recommend Land Pattern

Type	A±0.2	B±0.2	C±0.2	D(Typ)	E(Typ)	a	b	c	d
MSWC3216	3.2	1.6	1.8	0.6	0.6	2.2	3.7	1.6	0.5

Schematic



► Electrical Characteristics For MSWC3216 Series

Part Number	Impedance @ 100MHz (Ω) Tolerance(±25%)	DCR Max. (mΩ)	Idc Max. (mA)	Rated Voltage (V)	Insulation Resistance (MΩ) Min.
MSWC3216-500	50	250	400	50	10
MSWC3216-900	90	300	370	50	10
MSWC3216-161	160	400	340	50	10
MSWC3216-261	260	500	310	50	10
MSWC3216-601	600	800	260	50	10
MSWC3216-102	1000	1000	230	50	10
MSWC3216-222	2200	1200	200	50	10



Features

- Small size and low profile.
- High common mode impedance at high suppression performance
- Excellent solder ability

General Specifications

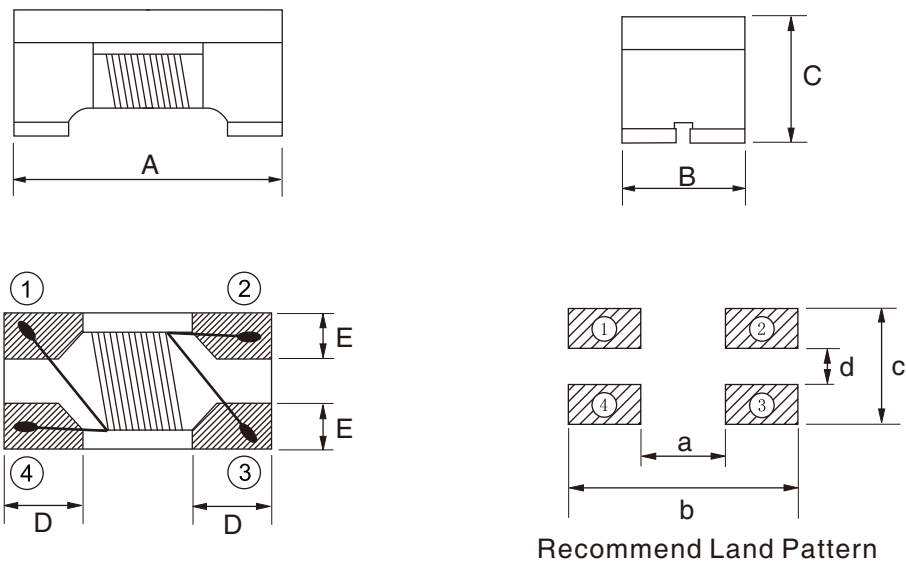
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +85°C
- Temperature Rise: 40°C max. at IDC

Applications

- USB2.0 of IEEE1394, PC
- Power switch and servers
- LVDS lines of Note PC, LCD
- Audio lines

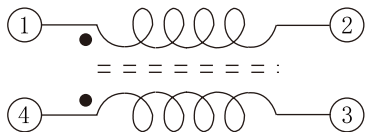


► **Dimensions & Configurations (Unit:mm)**



Type	A±0.2	B±0.2	C±0.2	D(Typ)	E(Typ)	a	b	c	d
MSWC3225	3.2	2.5	2.2	0.8	0.9	2.0	3.7	2.5	0.6

► **Schematic**



Electrical Characteristics For MSWC3225 Series

Part Number	Impedance @100MHz (Ω) Tolerance($\pm 25\%$)	DCR Max. ($m\Omega$)	Idc Max. (mA)	Rated Voltage (V)	Insulation Resistance ($M\Omega$) Min.
MSWC3225-900	90	60	1000	50	10
MSWC3225-101	100	60	1000	50	10
MSWC3225-121	120	60	1000	50	10
MSWC3225-201	200	80	1000	50	10
MSWC3225-501	500	100	1000	50	10
MSWC3225-601	600	100	1000	50	10
MSWC3225-102	1000	100	1000	50	10
MSWC3225-122	1200	300	400	50	10
MSWC3225-142	1400	300	400	50	10



Features

- Small size and low profile.
- High common mode impedance at high suppression performance
- Excellent solder ability

General Specifications

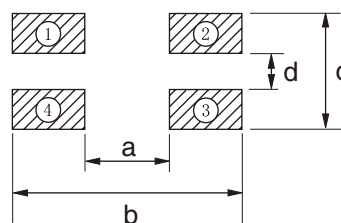
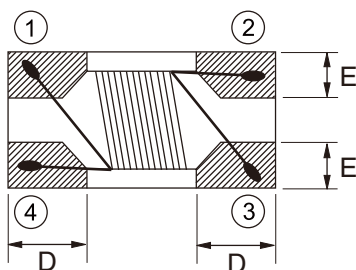
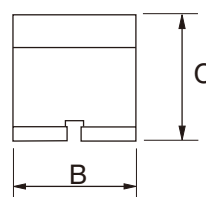
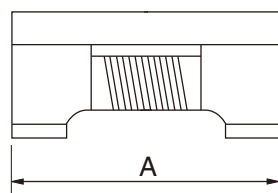
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +85°C
- Temperature Rise: 40°C max. at IDC

Applications

- USB2.0 of IEEE1394, PC
- Power switch and servers
- LVDS lines of Note PC, LCD
- Audio lines



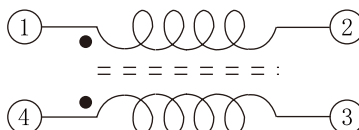
► Dimensions & Configurations (Unit:mm)



Recommend Land Pattern

Type	A±0.2	B±0.2	C±0.2	D(Typ)	E(Typ)	a	b	c	d
MSWC4532	4.5	3.2	2.8	1.0	1.2	2.5	4.8	3.8	0.7

► Schematic



Electrical Characteristics For MSWC4532 Series

Part Number	Impedance @ 100MHz (Ω) Tolerance($\pm 25\%$)	DCR Max. (m Ω)	Idc Max. (mA)	Rated Voltage (V)	Insulation Resistance (M Ω) Min.
MSWC4532-800	80	50	1100	50	10
MSWC4532-900	90	50	1100	50	10
MSWC4532-121	120	50	1100	50	10
MSWC4532-201	200	50	1100	50	10
MSWC4532-231	230	60	1100	50	10
MSWC4532-361	360	60	1100	50	10
MSWC4532-421	420	70	1000	50	10
MSWC4532-501	500	80	1000	50	10
MSWC4532-601	600	80	1000	50	10
MSWC4532-701	700	80	1000	50	10
MSWC4532-801	800	90	900	50	10
MSWC4532-901	900	100	800	50	10
MSWC4532-122	1200	100	700	50	10
MSWC4532-142	1400	100	700	50	10



Features

- Toroid core
- SMD Construction
- High Reliability

Applications

- Common mode choke for power application
- Filter and Noise Suppression
- DC/DC, AC/DC converter

General Specifications

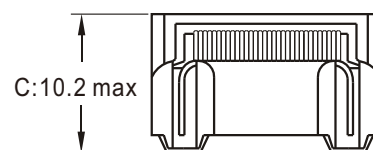
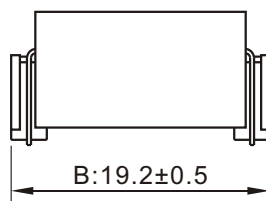
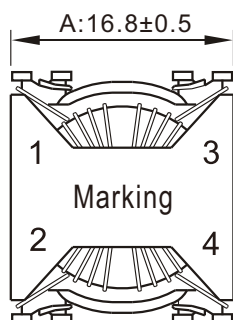
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C

Package Quantity

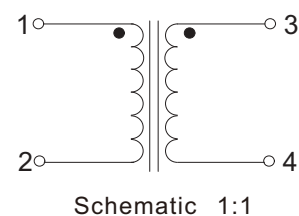
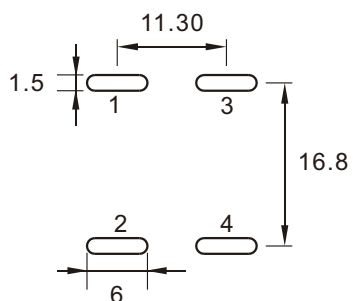
- 250 pcs/reel



Dimensions & Configurations (Unit:mm)



Recommended Layout



Electrical Characteristics For MSTM50 Series @ 25°C

Part Number	Inductance [mH]	DCR(max) [mΩ]	Rated Current (max) [A]
MSTM50-02	0.59 ±35%	21	5.6
MSTM50-03	1.32 ±35%	60	3.3
MSTM50-04	1.47 ±35%	80	2.8
MSTM50-05	0.77 ±35%	40	4.7
MSTM50-06	0.22 ±35%	60	3.3



Features

- Toroid core
- SMD Construction
- High Reliability

Applications

- Common mode choke for power application
- Filter and Noise Suppression
- DC/DC, AC/DC converter

General Specifications

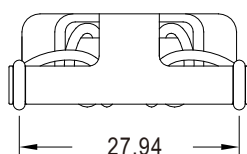
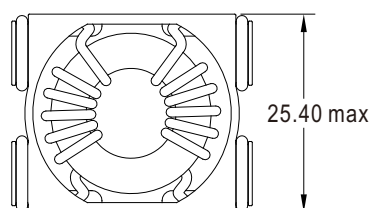
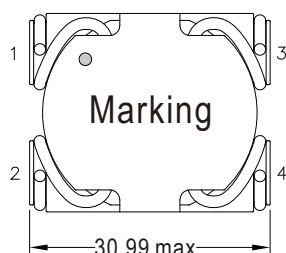
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C

Package Quantity

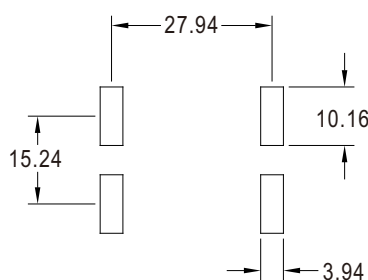
- 150 pcs/reel



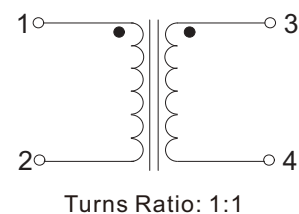
► Dimensions & Configurations (Unit:mm)



► Recommended Layout



► Schematic



► Electrical Characteristics @ 25°C

Part Number	Inductance [uH]	DCR(max) [mΩ]	Rated Current [A]
MSTM80-811N	810 ±35%	14	9.7
MSTM80-631N	630 ±35%	10	11.6
MSTM80-471N	470 ±35%	8	14.0

- Inductance is per winding tested at 1kHz, 0.25V
- Hi-pot: AC1000V/1mA/3S (N1-N2)
- Rated Current: The current at which the temperature rise is 55°C



Features

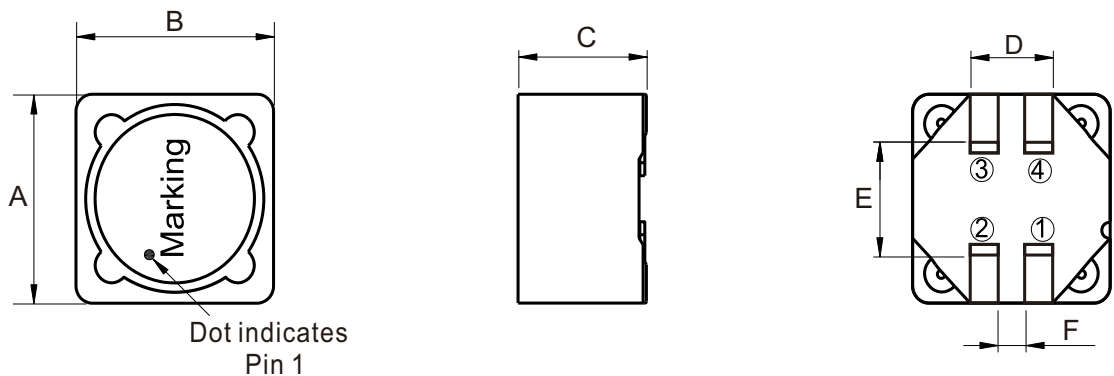
- Used in a variety of circuits including flyback, multi-output buck and SEPIC.
- Can also be used as two single inductors connected in series or parallel, as a Common mode choke or as a 1:1 transformer.
- Provide high inductance, excellent current handling in a rugged, low cost part.

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C

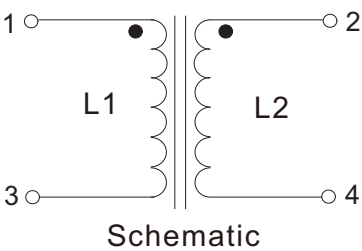
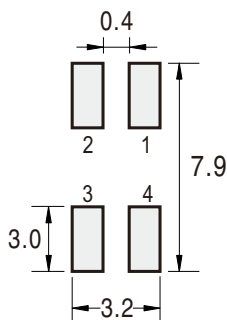


► Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E	F
MSRH74DP	7.3 ± 0.3	7.3 ± 0.3	4.6 max	2.9 ± 0.3	2.7 ± 0.3	1.0 ± 0.2

► Recommended Layout



Electrical Characteristics For MS74DP Series

Part Number	Inductance [uH]	DCR(max) [Ω]	Isat (max) [A]	Irms [A]	
				Both Windings	One Winding
MSRH74DP-3R3M	3.3 ±20%	0.040	5.4	2.05	2.89
MSRH74DP-4R7M	4.7 ±20%	0.051	4.6	1.74	2.46
MSRH74DP-5R6M	5.6 ±20%	0.063	4.2	1.57	2.22
MSRH74DP-6R8M	6.8 ±20%	0.070	3.9	1.49	2.10
MSRH74DP-8R2M	8.2 ±20%	0.075	3.5	1.44	2.03
MSRH74DP-100M	10 ±20%	0.100	3.0	1.24	1.76
MSRH74DP-120M	12 ±20%	0.120	2.7	1.14	1.61
MSRH74DP-150M	15 ±20%	0.130	2.4	1.09	1.54
MSRH74DP-180M	18 ±20%	0.170	2.3	0.95	1.35
MSRH74DP-220M	22 ±20%	0.220	2.1	0.84	1.19
MSRH74DP-270M	27 ±20%	0.250	1.9	0.79	1.11
MSRH74DP-330M	33 ±20%	0.270	1.7	0.76	1.07
MSRH74DP-390M	39 ±20%	0.380	1.5	0.64	0.90
MSRH74DP-470M	47 ±20%	0.420	1.4	0.61	0.86
MSRH74DP-560M	56 ±20%	0.460	1.3	0.58	0.82
MSRH74DP-680M	68 ±20%	0.600	1.2	0.51	0.72
MSRH74DP-820M	82 ±20%	0.680	1.1	0.48	0.67
MSRH74DP-101M	100 ±20%	0.770	0.98	0.45	0.63
MSRH74DP-121M	120 ±20%	1.03	0.90	0.39	0.55
MSRH74DP-151M	150 ±20%	1.35	0.80	0.34	0.48
MSRH74DP-181M	180 ±20%	1.52	0.73	0.32	0.45
MSRH74DP-221M	220 ±20%	1.72	0.66	0.30	0.42
MSRH74DP-271M	270 ±20%	2.41	0.60	0.25	0.36
MSRH74DP-331M	330 ±20%	2.70	0.54	0.24	0.34
MSRH74DP-391M	390 ±20%	3.05	0.50	0.23	0.32
MSRH74DP-471M	470 ±20%	4.00	0.46	0.20	0.28
MSRH74DP-561M	560 ±20%	4.43	0.42	0.19	0.26
MSRH74DP-681M	680 ±20%	5.00	0.38	0.18	0.25
MSRH74DP-821M	820 ±20%	6.80	0.35	0.15	0.21
MSRH74DP-102M	1000 ±20%	7.80	0.31	0.14	0.20

- Inductance tested at 1kHz, 0.25V, when leads are connected in parallel, inductance is the same value.
When leads are connected in series, inductance is four times the value
- DCR is for each winding, when leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current
- Irms(Both windings): Equal current when applied to each winding simultaneously that cause 40°C temp rise from 25°C ambient.
- Irms(one winding): Maximum current when applied to one winding that cause 40°C temp rise from 25°C ambient.
- Winding to winding isolation: 200Vrms/60S



Features

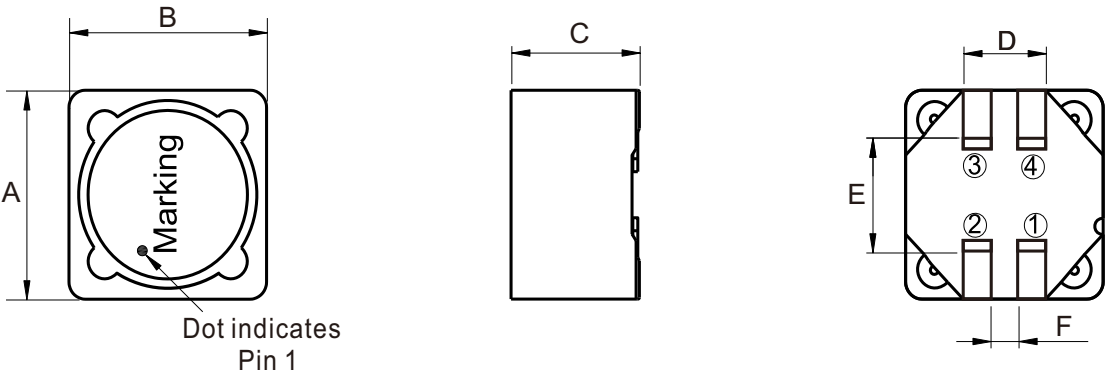
- Used in a variety of circuits including flyback, multi-output buck and SEPIC.
- Can also be used as two single inductors connected in series or parallel, as a Common mode choke or as a 1:1 transformer.
- Provide high inductance, excellent current handling in a rugged, low cost part.

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C

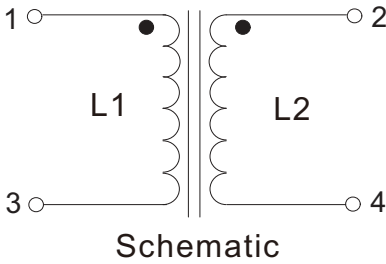
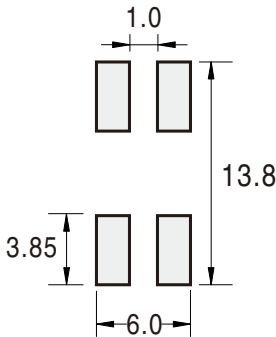


► Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E	F
MSRH125DP	12.2 ± 0.3	12.2 ± 0.3	6.0 ± 0.3	5.0 ± 0.3	7.2 Ref	1.7 ± 0.2

► Recommended Layout



Electrical Characteristics For MS125DP Series

Part Number	Inductance [uH]	DCR(max) [Ω]	Isat (max) [A]	Irms [A]	
				Both Windings	One Winding
MSRH125DP-4R7M	4.7 ±20%	0.036	10.3	3.16	4.47
MSRH125DP-5R6M	5.6 ±20%	0.040	9.66	3.00	4.24
MSRH125DP-6R8M	6.8 ±20%	0.048	9.21	2.75	3.88
MSRH125DP-8R2M	8.2 ±20%	0.052	8.55	2.63	3.72
MSRH125DP-100M	10 ±20%	0.060	7.40	2.45	3.46
MSRH125DP-120M	12 ±20%	0.074	6.86	2.21	3.12
MSRH125DP-150M	15 ±20%	0.085	6.09	2.06	2.92
MSRH125DP-180M	18 ±20%	0.097	5.30	1.93	2.73
MSRH125DP-220M	22 ±20%	0.116	5.01	1.76	2.49
MSRH125DP-270M	27 ±20%	0.124	4.66	1.70	2.41
MSRH125DP-330M	33 ±20%	0.134	4.22	1.64	2.32
MSRH125DP-390M	39 ±20%	0.142	3.80	1.59	2.25
MSRH125DP-470M	47 ±20%	0.174	3.25	1.44	2.03
MSRH125DP-560M	56 ±20%	0.198	3.07	1.35	1.91
MSRH125DP-680M	68 ±20%	0.216	2.83	1.29	1.83
MSRH125DP-820M	82 ±20%	0.274	2.55	1.15	1.62
MSRH125DP-101M	100 ±20%	0.322	2.20	1.06	1.50
MSRH125DP-121M	120 ±20%	0.418	2.05	0.93	1.31
MSRH125DP-151M	150 ±20%	0.476	1.82	0.87	1.23
MSRH125DP-181M	180 ±20%	0.536	1.60	0.82	1.16
MSRH125DP-221M	220 ±20%	0.691	1.51	0.72	1.02
MSRH125DP-271M	270 ±20%	0.806	1.41	0.67	0.95
MSRH125DP-331M	330 ±20%	1.09	1.28	0.57	0.81
MSRH125DP-391M	390 ±20%	1.20	1.16	0.55	0.77
MSRH125DP-471M	470 ±20%	1.59	1.00	0.48	0.67
MSRH125DP-561M	560 ±20%	1.81	0.95	0.45	0.63
MSRH125DP-681M	680 ±20%	2.06	0.88	0.42	0.59
MSRH125DP-821M	820 ±20%	2.65	0.79	0.37	0.52
MSRH125DP-102M	1000 ±20%	3.06	0.69	0.34	0.49

- Inductance tested at 1kHz, 0.25V, when leads are connected in parallel, inductance is the same value.
When leads are connected in series, inductance is four times the value
- DCR is for each winding, when leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current
- Irms(Both windings): Equal current when applied to each winding simultaneously that cause 40°C temp rise from 25°C ambient.
- Irms(one winding): Maximum current when applied to one winding that cause 40°C temp rise from 25°C ambient.
- Winding to winding isolation: 200Vrms/60S



Features

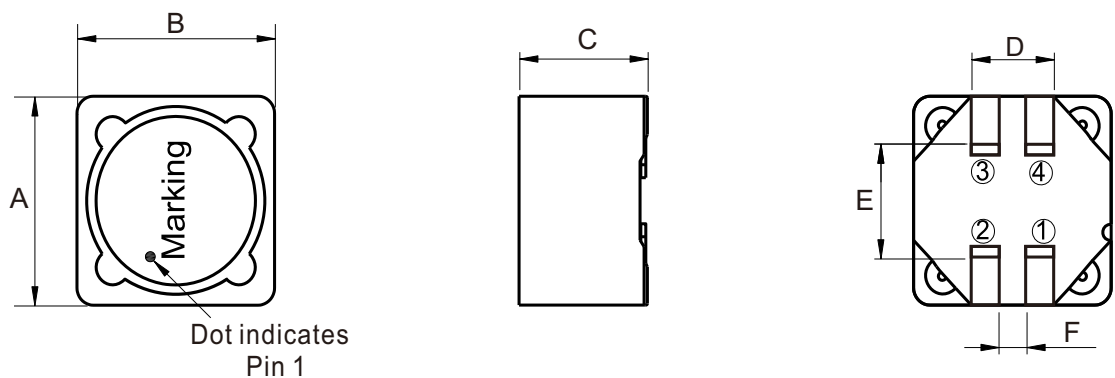
- Used in a variety of circuits including flyback, multi-output buck and SEPIC.
- Can also be used as two single inductors connected in series or parallel, as a Common mode choke or as a 1:1 transformer.
- Provide high inductance, excellent current handling in a rugged, low cost part.

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C

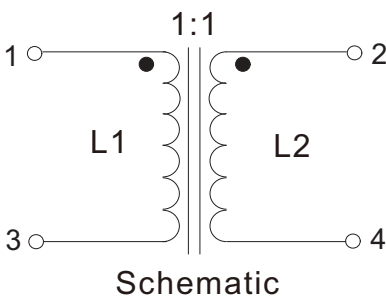
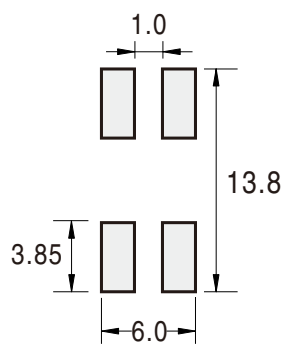


Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E	F
MSRH127DP	12.2 ± 0.3	12.2 ± 0.3	7.8 ± 0.3	5.0 ± 0.3	7.2 Ref	1.7 ± 0.2

Recommended Layout



Electrical Characteristics For MS127DP Series

Part Number	Inductance [uH]	DCR(max) [Ω]	Isat (max) [A]	Irms [A]	
				Both Windings	One Winding
MSRH127DP-4R7M	4.7 ±20%	0.038	14.9	3.16	4.47
MSRH127DP-5R6M	5.6 ±20%	0.046	13.4	2.87	4.06
MSRH127DP-6R8M	6.8 ±20%	0.048	13.1	2.81	3.98
MSRH127DP-8R2M	8.2 ±20%	0.050	10.8	2.76	3.90
MSRH127DP-100M	10 ±20%	0.058	10.5	2.56	3.62
MSRH127DP-120M	12 ±20%	0.062	9.6	2.48	3.50
MSRH127DP-150M	15 ±20%	0.072	9.1	2.30	3.25
MSRH127DP-180M	18 ±20%	0.080	8.0	2.18	3.08
MSRH127DP-220M	22 ±20%	0.096	6.8	1.99	2.81
MSRH127DP-270M	27 ±20%	0.120	6.5	1.78	2.52
MSRH127DP-330M	33 ±20%	0.150	5.6	1.59	2.25
MSRH127DP-390M	39 ±20%	0.160	5.5	1.54	2.18
MSRH127DP-470M	47 ±20%	0.180	5.2	1.45	2.05
MSRH127DP-560M	56 ±20%	0.190	4.5	1.41	2.00
MSRH127DP-680M	68 ±20%	0.210	4.1	1.35	1.90
MSRH127DP-820M	82 ±20%	0.280	3.8	1.16	1.65
MSRH127DP-101M	100 ±20%	0.300	3.4	1.13	1.59
MSRH127DP-121M	120 ±20%	0.410	3.2	0.96	1.36
MSRH127DP-151M	150 ±20%	0.460	2.8	0.91	1.29
MSRH127DP-181M	180 ±20%	0.510	2.5	0.86	1.22
MSRH127DP-221M	220 ±20%	0.690	2.3	0.74	1.05
MSRH127DP-271M	270 ±20%	0.900	2.1	0.65	0.92
MSRH127DP-331M	330 ±20%	1.02	1.9	0.61	0.86
MSRH127DP-391M	390 ±20%	1.12	1.7	0.58	0.82
MSRH127DP-471M	470 ±20%	1.43	1.6	0.50	0.70
MSRH127DP-561M	560 ±20%	1.69	1.5	0.47	0.67
MSRH127DP-681M	680 ±20%	2.29	1.3	0.41	0.58
MSRH127DP-821M	820 ±20%	2.55	1.2	0.39	0.55
MSRH127DP-102M	1000 ±20%	2.83	1.1	0.37	0.52

- Inductance tested at 1kHz, 0.25V, when leads are connected in parallel, inductance is the same value.
When leads are connected in series, inductance is four times the value
- DCR is for each winding, when leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current
- Irms(Both windings): Equal current when applied to each winding simultaneously that cause 40°C temp rise from 25°C ambient.
- Irms(one winding): Maximum current when applied to one winding that cause 40°C temp rise from 25°C ambient.
- Winding to winding isolation: 200Vrms/60S



Features

- Dual-choke configuration.
- Small compact design
- Rated Voltage: 80 VDC

General Specifications

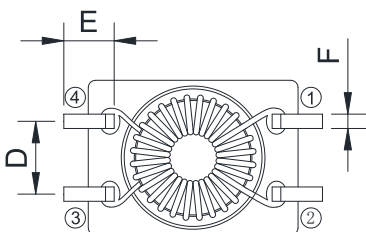
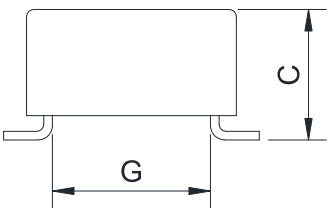
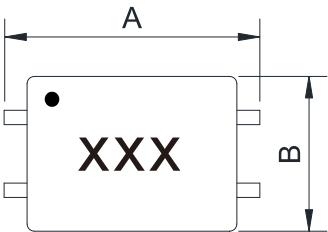
- Storage temp range: -40°C to +105°C
- Operating temp range: -40°C to +105°C

Applications

- Current compensated choke for data and signal lines
- Power supply system
- Signal and sensor lines
- Suppression of common mode noise

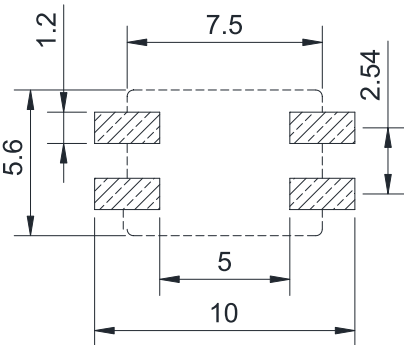


► Dimensions & Configurations (Unit:mm)

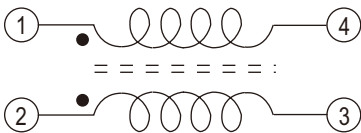


Type	A ± 0.3	B ± 0.3	C ± 0.3	D (Ref)	E (Ref)	F (Ref)	G (Ref)
SPF0905	9.0	5.4	4.6	2.54	1.8	0.5	5.5

► Land Patterns(mm)



► Schematic



► Electrical Characteristics For SPF0905 Series

Part Number	Inductance [uH]	Leakage Inductance (Ref) [uH]	DCR (max) [Ω]	Rated Current (max) [A]	Impedance	
					Frequency Range (MHz)	Min Value (Ω)
SPF0905-5R0N	5 ±30%	0.08	0.08	1.2	20-500	100
SPF0905-110N	11 ±30%	0.10	0.10	1.0	20-500	200
SPF0905-250N	25 ±30%	0.12	0.11	0.8	20-500	400
SPF0905-510N	51 ±30%	0.15	0.12	0.8	20-300	800
SPF0905-101Y	100 +50%/-30%	0.16	0.13	0.7	5-100	600
SPF0905-251Y	250 +50%/-30%	0.18	0.16	0.7	3-100	1000
SPF0905-471Y	470 +50%/-30%	0.20	0.20	0.7	2-50	1500
SPF0905-731Y	730 +50%/-30%	0.23	0.20	0.7	2-30	2000
SPF0905-102Y	1000 +50%/-30%	0.25	0.20	0.7	1-20	2500
SPF0905-222Y	2200 +50%/-30%	0.30	0.40	0.5	1-10	3000
SPF0905-302Y	3000 +50%/-30%	0.40	0.48	0.4	1-5	4000
SPF0905-472Y	4700 +50%/-30%	0.45	0.55	0.4	1-5	5000

- Inductance Test condition: 5-1000uH, 100KHz/0.1V; 2000-4700uH, 10KHz/0.1V
- Leakage inductance is for L1 and is measured with L2 shorted
- IDC Max: the value of DC current when the temperature rise is AT40°C (Ta=25°C)
- HI-POT test (N1-N2): 500 Vac / 60Hz, 3mA, 1sec.



Features

- Dual-choke configuration.
- Small compact design
- Rated Voltage: 80 VDC

General Specifications

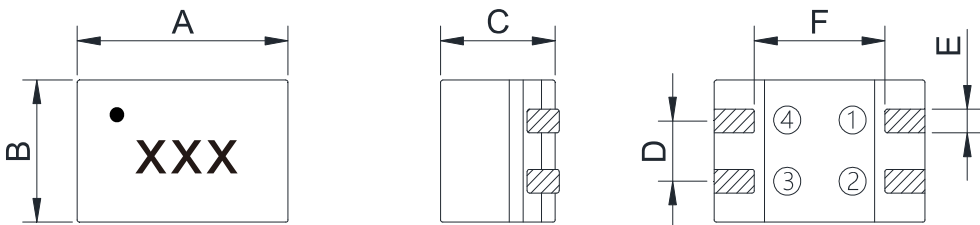
- Storage temp range: -40°C to +105°C
- Operating temp range: -40°C to +105°C

Applications

- Current compensated choke for data and signal lines
- Power supply system
- Signal and sensor lines
- Suppression of common mode noise

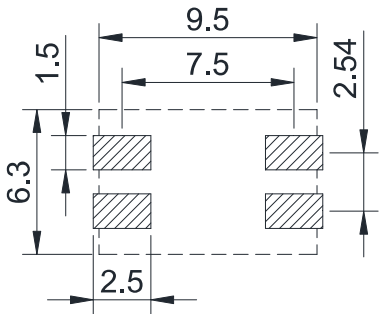


► Dimensions & Configurations (Unit:mm)

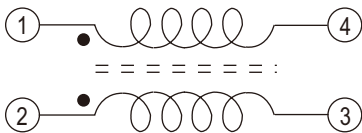


Type	A ± 0.3	B ± 0.3	C ± 0.3	D (Ref)	E (Ref)	F (Ref)
SF0905	9.2	6.0	5.0	2.54	1.0	5.7

► Land Patterns(mm)



► Schematic



▶ Electrical Characteristics For SF0905 Series

Part Number	Inductance [uH]	Leakage Inductance (Ref) [uH]	DCR (max) [Ω]	Rated Current (max) [A]	Impedance	
					Frequency Range (MHz)	Min Value (Ω)
SF0905-100Y	10±30%	8	0.08	1.6	20-300	200
SF0905-250Y	25±30%	16	0.16	1.0	20-150	600
SF0905-400Y	40±30%	18	0.25	0.9	20-100	800
SF0905-510Y	51±30%	22	0.32	0.8	20-100	1500
SF0905-251Y	250±50%	0.11	0.13	1.2	3-20	600
SF0905-471Y	470±50%	0.12	0.14	1.1	2-20	1000
SF0905-501Y	500±50%	0.12	0.15	1.0	1-20	1000
SF0905-102Y	1000±50%	0.17	0.31	0.8	1-15	1500
SF0905-202Y	2000±50%	0.25	0.42	0.6	1-5	3000
SF0905-472Y	4700±50%	0.36	0.90	0.4	0.3-3	4000
SF0905-652Y	6500±50%	0.39	1.05	0.3	0.3-2	5000

- Inductance Test condition: 10-51uH, 1KHz/0.1V; 250-6500uH, 100KHz/0.1V
- Leakage inductance is for L1 and is measured with L2 shorted
- Rated Current: the value of DC current when the temperature rise is AT40°C(Ta=25°C)
- HI-POT test (N1-N2): 500 Vac / 60Hz, 3mA, 1sec.



Features

- Chip common mode filter for large current applications.
- Compatible with high-density portable devices.

General Specifications

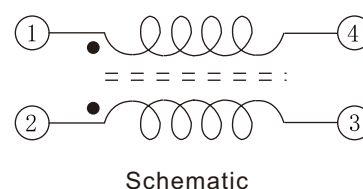
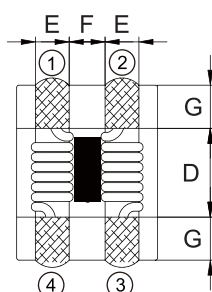
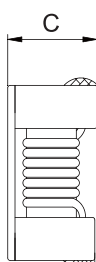
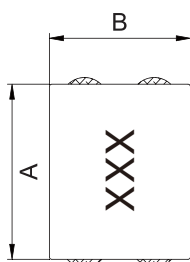
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +125°C

Applications

- Power line noise countermeasure for various electronic equipment.
- Noise countermeasure for adapter lines and battery lines or larger electronic equipment



Dimensions & Configurations (Unit:mm)



Type	A±0.5	B±0.5	C(Max.)	D(Typ.)	E(Typ.)	F(Typ.)	G(Typ.)
MACM7060	7.0	6.0	3.8	3.5	1.5	1.5	1.7

Electrical Characteristics For MACM7060 Series

Part Number	Impedance @100MHz (Ω)		DCR Max. (mΩ)	Idc Max. (A)	Rated Voltage (V) Max.	InsMlation Resistance (MΩ) Min.
	Min	Typ				
MACM7060-400	40	70	6.5	15	125	10
MACM7060-101	100	140	10	9	125	10
MACM7060-301	225	300	10	5	125	10
MACM7060-501	275	450	13	5	125	10
MACM7060-601	500	680	15	4	125	10
MACM7060-701	500	700	16	4	125	10
MACM7060-102	800	1020	18	3	125	10
MACM7060-132	910	1300	21	2.5	125	10
MACM7060-222	1800	2200	60	1.1	125	10
MACM7060-272	2000	2700	63	1	125	10
MACM7060-302	2500	3000	75	0.9	125	10



Features

- Chip common mode filter for large current applications.
- Compatible with high-density portable devices.

General Specifications

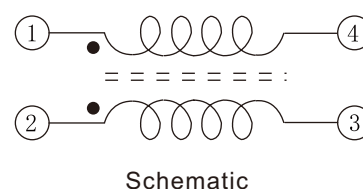
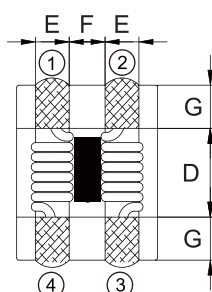
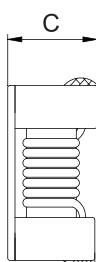
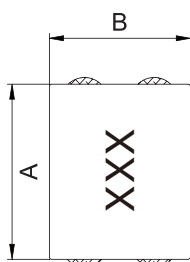
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +125°C

Applications

- Power line noise countermeasure for various electronic equipment.
- Noise countermeasure for adapter lines and battery lines or larger electronic equipment



Dimensions & Configurations (Unit:mm)



Type	A±0.5	B±0.5	C(Max.)	D(Typ.)	E(Typ.)	F(Typ.)	G(Typ.)
MACM9070	9.5	7.0	4.8	5.7	1.5	2.0	1.7

Electrical Characteristics For MACM9070 Series

Part NMmber	Impedance @100MHz (Ω)		DCR Max. (mΩ)	Idc Max. (A)	Rated Voltage (V) Max.	InsMlation Resistance (MΩ) Min.
	Min	Typ				
MACM9070-301	225	300	7	6.0	50	10
MACM9070-501	450	600	8	5.5	50	10
MACM9070-701	500	700	10	5.0	50	10
MACM9070-102	750	1000	13	4.0	50	10
MACM9070-122	700	1200	18	3.5	50	10
MACM9070-152	700	1500	20	3.0	50	10
MACM9070-202	1500	2000	20	2.5	50	10
MACM9070-222	1700	2200	60	2.3	50	10
MACM9070-272	2000	2700	86	2.0	50	10



Features

- Chip common mode filter for large current applications.
- Compatible with high-density portable devices.

General Specifications

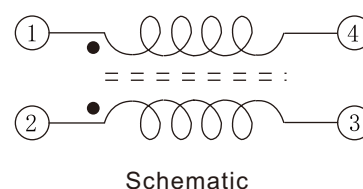
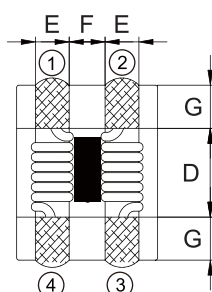
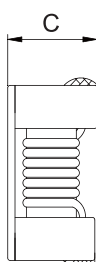
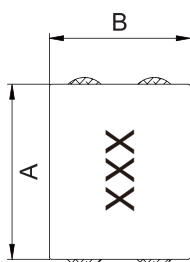
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +125°C

Applications

- Power line noise countermeasure for various electronic equipment.
- Noise countermeasure for adapter lines and battery lines or larger electronic equipment



Dimensions & Configurations (Unit:mm)



Type	A±0.5	B±0.5	C(Max.)	D(Typ.)	E(Typ.)	F(Typ.)	G(Typ.)
MACM1211	12.5	11.2	6.8	7.0	2.7	2.5	2.5

Electrical Characteristics For MACM1211 Series

Part Number	Impedance @100MHz (Ω)		DCR Max. (mΩ)	Idc Max. (A)	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
	Min	Typ				
MACM1211-800	80	230	5	10	125	10
MACM1211-501	250	500	5	9	125	10
MACM1211-701	500	700	6	8	125	10
MACM1211-801	600	800	8	8	125	10
MACM1211-901	620	820	10	7.5	125	10
MACM1211-102	750	1000	14	6	125	10
MACM1211-152	1000	1500	20	5	125	10
MACM1211-202	1400	2000	25	4	125	10
MACM1211-222	2200	2500	35	2	125	10
MACM1211-272	2300	2700	60	1.5	125	10



Features

- Chip common mode filter for large current applications.
- Compatible with high-density portable devices.

General Specifications

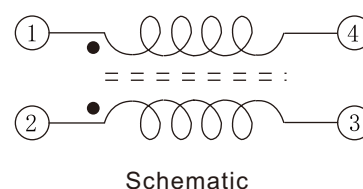
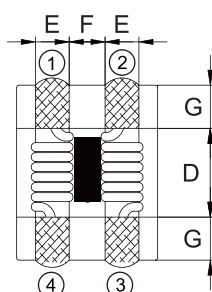
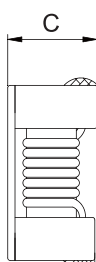
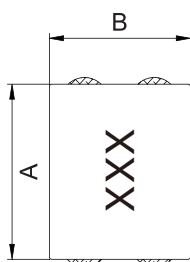
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +125°C

Applications

- Power line noise countermeasure for various electronic equipment.
- Noise countermeasure for adapter lines and battery lines or larger electronic equipment



Dimensions & Configurations (Unit:mm)



Type	A±0.5	B±0.5	C(Max.)	D(Typ.)	E(Typ.)	F(Typ.)	G(Typ.)
MACM1513	15.0	13.0	6.6	9.4	2.6	3.6	2.5

Electrical Characteristics For MACM1513 Series

Part Number	Impedance @100MHz (Ω)		DCR Max. (mΩ)	Idc Max. (A)	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
	Min	Typ				
MACM1513-301	200	300	6.0	12.0	125	10
MACM1513-132	900	1300	0.6	8.0	125	10



Features

- Low cost and high reliability.
- Wide range of inductance.
- Protect by UL or PVC tube.

Applications

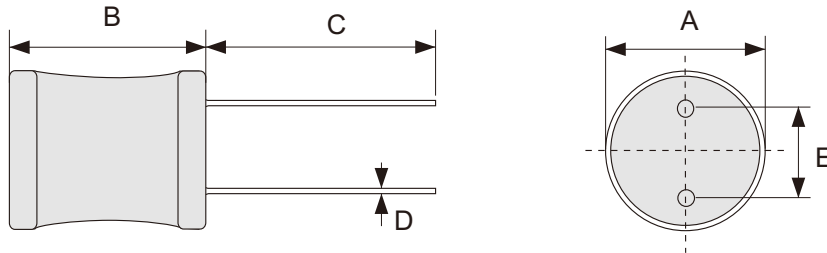
- Power supplies
- DC/DC converters
- General use

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C



Shape and Dimensions (Unit:mm)



Type	A (max)	B (max)	C min	D ± 0.1	E ± 0.5
MCHB0406	5.0	8.0	12.0	0.5	2.0
MCHB0608	7.5	10.0	12.0	0.6	3.0
MCHB0810	9.0	12.0	12.0	0.6	5.0
MCHB0912	10.0	14.0	12.0	0.8	6.0
MCHB1012	11.0	14.0	12.0	0.8	6.0
MCHB1016	11.0	18.0	12.0	0.8	6.0

- Inductance tolerance: M: $\pm 20\%$, K: $\pm 10\%$
- I_{dc} : The DC current at which the inductance decrease 10% of its initial value without current or when $\Delta t = 40^\circ\text{C}$, whichever is lower ($T_a = 25^\circ\text{C}$)
- Package: bulk.

Electrical Characteristics For MCHB0406 Series

Part Number	Inductance [uH]	Q	Q Test Freq. [MHz]	SRF [MHz]	DCR(max) [Ω]	IDC [mA]
MCHB0406-1R0K	1.0	130	7.96	120	0.035	2000
MCHB0406-1R2K	1.2	100	7.96	120	0.058	1950
MCHB0406-1R5K	1.5	100	7.96	120	0.075	1900
MCHB0406-1R8K	1.8	100	7.96	120	0.110	1800
MCHB0406-2R2K	2.2	100	7.96	100	0.120	1750
MCHB0406-2R7K	2.7	100	7.96	80	0.125	1680
MCHB0406-3R3K	3.3	100	7.96	75	0.130	1500
MCHB0406-3R9K	3.9	100	7.96	70	0.135	1450
MCHB0406-4R7K	4.7	100	7.96	50	0.140	1320
MCHB0406-5R6K	5.6	100	7.96	45	0.145	1230
MCHB0406-6R8K	6.8	100	7.96	30	0.15	1150
MCHB0406-8R2K	8.2	100	7.96	22	0.16	1100
MCHB0406-100K	10	80	2.52	20	0.23	1000
MCHB0406-120K	12	80	2.52	17	0.24	970
MCHB0406-150K	15	80	2.52	16	0.25	920
MCHB0406-180K	18	80	2.52	12	0.33	860
MCHB0406-220K	22	80	2.52	10	0.45	800
MCHB0406-270K	27	80	2.52	9.5	0.50	710
MCHB0406-330K	33	80	2.52	8.7	0.70	660
MCHB0406-390K	39	70	2.52	8.2	0.74	600
MCHB0406-470K	47	70	2.52	7.8	0.76	550
MCHB0406-560K	56	50	2.52	7.6	0.80	500
MCHB0406-680K	68	50	2.52	6.8	0.90	470
MCHB0406-820K	82	50	2.52	6.0	0.95	430
MCHB0406-101K	100	45	0.796	6.0	1.0	400
MCHB0406-121K	120	45	0.796	5.5	1.1	370
MCHB0406-151K	150	65	0.796	4.2	1.3	350
MCHB0406-181K	180	65	0.796	3.6	1.5	320
MCHB0406-221K	220	65	0.796	2.8	1.8	300
MCHB0406-271K	270	50	0.796	2.4	1.9	275
MCHB0406-331K	330	50	0.796	2.2	2.2	250
MCHB0406-391K	390	50	0.796	2.0	2.7	220
MCHB0406-471K	470	50	0.796	1.7	3.6	200
MCHB0406-561K	560	50	0.796	1.5	4.2	190
MCHB0406-681K	680	50	0.796	1.3	4.6	170
MCHB0406-821K	820	50	0.796	1.1	5.7	155
MCHB0406-102K	1000	90	0.252	1.0	6.7	150
MCHB0406-122K	1200	90	0.252	0.9	8.2	140
MCHB0406-152K	1500	80	0.252	0.8	13	120
MCHB0406-182K	1800	80	0.252	0.8	15	110
MCHB0406-222K	2200	80	0.252	0.8	17	100
MCHB0406-272K	2700	80	0.252	0.8	19	90
MCHB0406-332K	3300	70	0.252	0.7	26	83
MCHB0406-392K	3900	70	0.252	0.65	30	76
MCHB0406-472K	4700	65	0.252	0.60	45	70
MCHB0406-562K	5600	65	0.252	0.55	48	62
MCHB0406-682K	6800	65	0.252	0.55	56	56
MCHB0406-822K	8200	65	0.252	0.55	62	52
MCHB0406-103K	10000	45	0.0796	0.55	72	47
MCHB0406-123K	12000	45	0.0796	0.5	80	40
MCHB0406-153K	15000	45	0.0796	0.5	120	35
MCHB0406-183K	18000	45	0.0796	0.5	135	30
MCHB0406-223K	22000	45	0.0796	0.5	160	24
MCHB0406-253K	25000	45	0.0796	0.5	180	20

Electrical Characteristics For MCHB0608 Series

Part Number	Inductance [uH]	Q	Q Test Freq. [MHz]	SRF [MHz]	DCR(max) [Ω]	IDC [mA]
MCHB0608-100K	10	25	2.52	16	0.09	1300
MCHB0608-120K	12	25	2.52	15	0.10	1100
MCHB0608-150K	15	25	2.52	13	0.11	1050
MCHB0608-180K	18	20	2.52	12	0.12	1000
MCHB0608-220K	22	25	2.52	11	0.12	960
MCHB0608-270K	27	25	2.52	10	0.17	920
MCHB0608-330K	33	25	2.52	8.8	0.19	880
MCHB0608-390K	39	20	2.52	8.4	0.22	860
MCHB0608-470K	47	20	2.52	8.2	0.23	830
MCHB0608-560K	56	20	2.52	7.9	0.29	810
MCHB0608-680K	68	20	2.52	7.0	0.37	750
MCHB0608-820K	82	20	2.52	6.5	0.39	740
MCHB0608-101K	100	30	0.796	5.7	0.44	710
MCHB0608-121K	120	30	0.796	5.2	0.64	680
MCHB0608-151K	150	35	0.796	4.7	0.73	600
MCHB0608-181K	180	35	0.796	4.2	0.82	540
MCHB0608-221K	220	35	0.796	3.7	0.92	450
MCHB0608-271K	270	30	0.796	3.5	1.2	420
MCHB0608-331K	330	40	0.796	3.2	1.6	400
MCHB0608-391K	390	25	0.796	2.9	1.9	370
MCHB0608-471K	470	35	0.796	2.4	2.3	340
MCHB0608-561K	560	35	0.796	2.2	2.6	280
MCHB0608-681K	680	45	0.796	2.0	2.8	250
MCHB0608-821K	820	40	0.796	1.6	3.0	230
MCHB0608-102K	1000	70	0.796	1.5	3.3	200
MCHB0608-122K	1200	70	0.252	0.8	3.5	180
MCHB0608-152K	1500	70	0.252	0.7	4.5	160
MCHB0608-182K	1800	70	0.252	0.6	5.0	140
MCHB0608-222K	2200	70	0.252	0.5	6.2	120
MCHB0608-272K	2700	70	0.252	0.4	7.2	100
MCHB0608-332K	3300	70	0.252	0.3	10.5	80
MCHB0608-392K	3900	70	0.252	0.2	11.7	70
MCHB0608-472K	4700	70	0.252	0.18	13.6	60
MCHB0608-562K	5600	70	0.252	0.16	16.6	50
MCHB0608-682K	6800	70	0.252	0.16	19.6	50
MCHB0608-822K	8200	70	0.252	0.16	25.2	40
MCHB0608-103K	10000	70	0.0796	0.14	29.5	40
MCHB0608-123K	12000	70	0.0796	0.14	33.8	40
MCHB0608-153K	15000	70	0.0796	0.14	45.4	30
MCHB0608-183K	18000	70	0.0796	0.14	50.4	30
MCHB0608-223K	22000	70	0.0796	0.12	60.0	30
MCHB0608-303K	30000	70	0.0796	0.12	91.5	20
MCHB0608-333K	33000	70	0.0796	0.12	98.5	20
MCHB0608-393K	39000	70	0.0796	0.12	140	15
MCHB0608-473K	47000	70	0.0796	0.12	160	15

Electrical Characteristics For MCHB0810 Series

Part Number	Inductance [uH]	Q	Q Test Freq. [MHz]	SRF [MHz]	DCR(max) [Ω]	IDC [mA]
MCHB0810 - 1R0M	1.0	90	7.96	100	0.02	3400
MCHB0810 - 1R2M	1.2	90	7.96	90	0.02	3400
MCHB0810 - 1R5M	1.5	95	7.96	80	0.02	3400
MCHB0810 - 1R8M	1.8	95	7.96	75	0.03	3300
MCHB0810 - 2R2M	2.2	100	7.96	70	0.03	3000
MCHB0810 - 2R7M	2.7	110	7.96	60	0.04	3000
MCHB0810 - 3R3M	3.3	110	7.96	56	0.04	3000
MCHB0810 - 3R9M	3.9	110	7.96	52	0.05	2900
MCHB0810 - 4R7M	4.7	110	7.96	30	0.05	2900
MCHB0810 - 5R6M	5.6	110	7.96	30	0.06	2600
MCHB0810 - 6R8M	6.8	90	7.96	20	0.06	2500
MCHB0810 - 8R2M	8.2	80	7.96	17	0.06	2000
MCHB0810 - 100K	10	90	2.52	12	0.10	3500
MCHB0810 - 120K	12	90	2.52	11	0.10	3500
MCHB0810 - 150K	15	90	2.52	10	0.10	3200
MCHB0810 - 180K	18	80	2.52	9.0	0.11	3200
MCHB0810 - 220K	22	70	2.52	8.0	0.13	3000
MCHB0810 - 270K	27	70	2.52	7.0	0.14	2800
MCHB0810 - 330K	33	70	2.52	7.0	0.16	2500
MCHB0810 - 390K	39	70	2.52	6.0	0.16	2250
MCHB0810 - 470K	47	70	2.52	5.5	0.16	2000
MCHB0810 - 560K	56	60	2.52	5.5	0.22	1800
MCHB0810 - 680K	68	60	2.52	5.0	0.23	1500
MCHB0810 - 820K	82	60	2.52	4.5	0.27	1250
MCHB0810 - 101K	100	40	0.796	4.5	0.29	1000
MCHB0810 - 121K	120	40	0.796	4.5	0.33	1000
MCHB0810 - 151K	150	40	0.796	4.5	0.46	850
MCHB0810 - 181K	180	40	0.796	4.0	0.51	850
MCHB0810 - 221K	220	40	0.796	3.5	0.62	800
MCHB0810 - 271K	270	30	0.796	3.0	0.65	800
MCHB0810 - 331K	330	30	0.796	3.0	0.79	700
MCHB0810 - 391K	390	30	0.796	2.5	0.91	700
MCHB0810 - 471K	470	30	0.796	2.5	1.2	650
MCHB0810 - 561K	560	30	0.796	2.0	1.2	650
MCHB0810 - 681K	680	30	0.796	2.0	1.5	550
MCHB0810 - 821K	820	25	0.796	2.0	1.7	500
MCHB0810 - 102K	1000	50	0.252	2.0	2.0	450
MCHB0810 - 122K	1200	45	0.252	1.5	2.3	450
MCHB0810 - 152K	1500	45	0.252	1.5	2.9	400
MCHB0810 - 182K	1800	45	0.252	1.5	3.5	400
MCHB0810 - 222K	2200	50	0.252	1.0	4.2	360
MCHB0810 - 272K	2700	50	0.252	1.0	5.1	360
MCHB0810 - 332K	3300	50	0.252	0.9	6.1	280
MCHB0810 - 392K	3900	50	0.252	0.8	7.8	280
MCHB0810 - 472K	4700	55	0.252	0.7	11	260
MCHB0810 - 562K	5600	55	0.252	0.6	11	260
MCHB0810 - 682K	6800	55	0.252	0.6	14	240
MCHB0810 - 822K	8200	60	0.252	0.6	15	240
MCHB0810 - 103K	10000	100	0.0796	0.5	20	180
MCHB0810 - 123K	12000	100	0.0796	0.4	24	180
MCHB0810 - 153K	15000	100	0.0796	0.4	28	180
MCHB0810 - 183K	18000	100	0.0796	0.4	42	140
MCHB0810 - 223K	22000	100	0.0796	0.3	43	140
MCHB0810 - 273K	27000	100	0.0796	0.3	55	140
MCHB0810 - 333K	33000	90	0.0796	0.2	65	140
MCHB0810 - 393K	39000	90	0.0796	0.2	87	100
MCHB0810 - 473K	47000	85	0.0796	0.2	98	100
MCHB0810 - 563K	56000	80	0.0796	0.2	128	100
MCHB0810 - 683K	68000	70	0.0796	0.2	141	80
MCHB0810 - 823K	82000	70	0.0796	0.2	161	80
MCHB0810 - 104K	100000	55	0.0796	0.2	180	80

Electrical Characteristics For MCHB0912 Series

Part Number	Inductance [uH]	Q	Q Test Freq. [MHz]	SRF [MHz]	DCR(max) [Ω]	IDC [mA]
MCHB0912-100K	10	110	2.52	24	0.04	2800
MCHB0912-120K	12	110	2.52	18	0.04	2700
MCHB0912-150K	15	110	2.52	11	0.05	2300
MCHB0912-180K	18	90	2.52	8.4	0.06	2100
MCHB0912-220K	22	90	2.52	9.2	0.07	2000
MCHB0912-270K	27	90	2.52	7.1	0.10	1700
MCHB0912-330K	33	90	2.52	7.1	0.12	1500
MCHB0912-390K	39	80	2.52	6.9	0.12	1400
MCHB0912-470K	47	70	2.52	6.0	0.13	1300
MCHB0912-560K	56	70	2.52	5.7	0.14	1200
MCHB0912-680K	68	60	2.52	5.4	0.15	1000
MCHB0912-820K	82	50	2.52	4.6	0.16	900
MCHB0912-101K	100	60	0.796	4.0	0.25	700
MCHB0912-121K	120	60	0.796	3.6	0.28	700
MCHB0912-151K	150	55	0.796	3.1	0.32	700
MCHB0912-181K	180	55	0.796	2.8	0.47	600
MCHB0912-221K	220	55	0.796	2.5	0.53	500
MCHB0912-271K	270	50	0.796	2.4	0.60	450
MCHB0912-331K	330	50	0.796	2.0	0.85	400
MCHB0912-391K	390	50	0.796	2.1	0.95	350
MCHB0912-471K	470	40	0.796	1.9	1.1	350
MCHB0912-561K	560	30	0.796	1.8	1.2	300
MCHB0912-681K	680	30	0.796	1.7	1.3	250
MCHB0912-821K	820	30	0.796	1.5	1.4	200
MCHB0912-102K	1000	70	0.252	1.1	2.0	200
MCHB0912-122K	1200	70	0.252	1.0	2.3	180
MCHB0912-152K	1500	70	0.252	1.0	2.9	150
MCHB0912-182K	1800	70	0.252	0.9	3.3	120
MCHB0912-222K	2200	70	0.252	0.7	4.5	110
MCHB0912-272K	2700	70	0.252	0.7	5.5	90
MCHB0912-332K	3300	60	0.252	0.6	5.7	80
MCHB0912-392K	3900	60	0.252	0.6	6.5	60
MCHB0912-472K	4700	60	0.252	0.6	7.2	50
MCHB0912-562K	5600	60	0.252	0.5	9.5	50
MCHB0912-682K	6800	60	0.252	0.5	11	50
MCHB0912-822K	8200	50	0.252	0.4	13	40
MCHB0912-103K	10000	120	0.0796	0.3	16	40
MCHB0912-123K	12000	120	0.0796	0.3	18	40
MCHB0912-153K	15000	110	0.0796	0.3	21	40
MCHB0912-183K	18000	110	0.0796	0.3	23	40
MCHB0912-223K	22000	110	0.0796	0.2	33	35
MCHB0912-273K	27000	100	0.0796	0.2	37	35
MCHB0912-333K	33000	90	0.0796	0.2	42	35
MCHB0912-393K	39000	90	0.0796	0.2	45	30
MCHB0912-473K	47000	80	0.0796	0.2	52	30

Electrical Characteristics For MCHB1012 Series

Part Number	Inductance [uH]	Q	Q Test Freq. [MHz]	SRF [MHz]	DCR(max) [Ω]	IDC [mA]
MCHB1012-103K	10000	100	0.0796	0.35	12	180
MCHB1012-123K	12000	100	0.0796	0.31	13	160
MCHB1012-153K	15000	100	0.0796	0.28	18	140
MCHB1012-183K	18000	80	0.0796	0.26	25	130
MCHB1012-223K	22000	80	0.0796	0.22	30	120
MCHB1012-273K	27000	80	0.0796	0.20	35	110
MCHB1012-333K	33000	80	0.0796	0.19	40	100
MCHB1012-393K	39000	80	0.0796	0.17	50	90
MCHB1012-473K	47000	60	0.0796	0.15	50	80
MCHB1012-563K	56000	40	0.0796	0.13	65	75
MCHB1012-683K	68000	40	0.0796	0.12	70	70
MCHB1012-823K	82000	30	0.0796	0.10	100	60
MCHB1012-104K	100000	30	0.0796	0.10	135	55

- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current

▶ Electrical Characteristics For MCHB1016 Series

Part Number	Inductance [uH]	SRF [MHz]	DCR(max) [Ω]	IDC [A]
MCHB1016-100K	10	30	0.018	6.8
MCHB1016-120K	12	26	0.019	6.2
MCHB1016-150K	15	22	0.022	5.4
MCHB1016-180K	18	15	0.024	5.0
MCHB1016-220K	22	11	0.026	4.7
MCHB1016-270K	27	8.2	0.030	4.2
MCHB1016-330K	33	7.7	0.037	3.8
MCHB1016-390K	39	7.3	0.042	3.5
MCHB1016-470K	47	6.7	0.046	3.2
MCHB1016-560K	56	6.2	0.051	3.0
MCHB1016-680K	68	5.4	0.065	2.6
MCHB1016-820K	82	4.7	0.074	2.4
MCHB1016-101K	100	4.3	0.084	2.2
MCHB1016-121K	120	3.7	0.11	2.0
MCHB1016-151K	150	3.2	0.12	1.8
MCHB1016-181K	180	2.9	0.13	1.6
MCHB1016-221K	220	2.7	0.17	1.4
MCHB1016-271K	270	2.3	0.23	1.3
MCHB1016-331K	330	1.9	0.31	1.2
MCHB1016-391K	390	1.8	0.34	1.1
MCHB1016-471K	470	1.7	0.39	1.0
MCHB1016-561K	560	1.6	0.43	0.9
MCHB1016-681K	680	1.4	0.59	0.82
MCHB1016-821K	820	1.3	0.65	0.77
MCHB1016-102K	1000	1.1	0.85	0.69
MCHB1016-122K	1200	1.0	1.00	0.64
MCHB1016-152K	1500	0.94	1.10	0.57
MCHB1016-182K	1800	0.88	1.40	0.52
MCHB1016-222K	2200	0.73	1.70	0.46
MCHB1016-272K	2700	0.69	2.00	0.42
MCHB1016-332K	3300	0.62	2.50	0.38
MCHB1016-392K	3900	0.59	2.80	0.34
MCHB1016-472K	4700	0.52	3.60	0.32
MCHB1016-562K	5600	0.45	4.50	0.29
MCHB1016-682K	6800	0.43	5.10	0.26
MCHB1016-822K	8200	0.40	6.70	0.24
MCHB1016-103K	10000	0.37	7.70	0.22
MCHB1016-123K	12000	0.34	9.20	0.2
MCHB1016-153K	15000	0.27	11.30	0.17
MCHB1016-183K	18000	0.25	14.20	0.16
MCHB1016-223K	22000	0.22	18.00	0.14
MCHB1016-273K	27000	0.21	20.50	0.13



Features

- Magnetically unshielded
- Low cost, high current power inductors
- Custom design on request

Applications

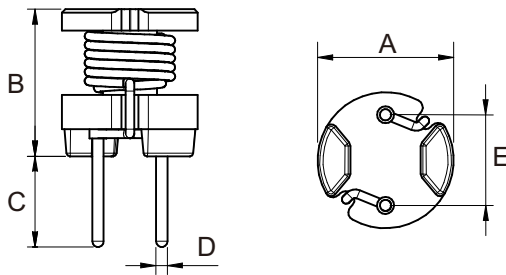
- Signal filtering
- Switches, Power supply filter
- EMI filter

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Type	A (±0.5)	B (max)	C (±1.0)	D (±0.1)	E (±0.5)
MC2W0605	6.0	5.0	4.0	0.5	4.0
MC2W0606	6.0	6.5	4.0	0.5	4.0
MC2W0805	7.8	5.5	5.0	0.7	5.0
MC2W0807	7.8	7.5	5.0	0.7	5.0
MC2W0809	7.8	9.5	5.0	0.7	5.0
MC2W1014	10.0	14.5	5.0	0.8	5.0

Electrical Characteristics For MC2W0605 Series

Part Number	Inductance [uH]	DCR (max) [Ω]	Rated Current (max) [A]
MC2W0605-220M	22 ±20%	0.18	0.90
MC2W0605-270M	27 ±20%	0.21	0.81
MC2W0605-330M	33 ±20%	0.27	0.74
MC2W0605-390M	39 ±20%	0.29	0.68
MC2W0605-470M	47 ±20%	0.34	0.62
MC2W0605-560M	56 ±20%	0.42	0.57
MC2W0605-680M	68 ±20%	0.48	0.51
MC2W0605-820M	82 ±20%	0.55	0.47
MC2W0605-101K	100 ±10%	0.68	0.42
MC2W0605-121K	120 ±10%	0.77	0.39
MC2W0605-151K	150 ±10%	0.95	0.35
MC2W0605-181K	180 ±10%	1.15	0.32
MC2W0605-221K	220 ±10%	1.30	0.29
MC2W0605-271K	270 ±10%	1.55	0.26
MC2W0605-331K	330 ±10%	2.18	0.23
MC2W0605-391K	390 ±10%	2.47	0.21
MC2W0605-471K	470 ±10%	2.92	0.20
MC2W0605-561K	560 ±10%	3.97	0.18
MC2W0605-681K	680 ±10%	4.57	0.16
MC2W0605-821K	820 ±10%	5.28	0.15
MC2W0605-102K	1000 ±10%	7.06	0.13

► Electrical Characteristics For MC2W0606 Series

Part Number	Inductance [uH]	DCR (max) [Ω]	Rated Current (max) [A]
MC2W0606-220M	22 ±20%	0.11	1.27
MC2W0606-270M	27 ±20%	0.14	1.14
MC2W0606-330M	33 ±20%	0.17	1.03
MC2W0606-390M	39 ±20%	0.19	0.95
MC2W0606-470M	47 ±20%	0.23	0.87
MC2W0606-560M	56 ±20%	0.26	0.80
MC2W0606-680M	68 ±20%	0.28	0.72
MC2W0606-820M	82 ±20%	0.39	0.66
MC2W0606-101K	100 ±10%	0.43	0.59
MC2W0606-121K	120 ±10%	0.54	0.54
MC2W0606-151K	150 ±10%	0.64	0.48
MC2W0606-181K	180 ±10%	0.74	0.44
MC2W0606-221K	220 ±10%	0.96	0.40
MC2W0606-271K	270 ±10%	1.12	0.36
MC2W0606-331K	330 ±10%	1.48	0.33
MC2W0606-391K	390 ±10%	1.66	0.30
MC2W0606-471K	470 ±10%	1.91	0.28
MC2W0606-561K	560 ±10%	2.31	0.25
MC2W0606-681K	680 ±10%	2.67	0.23
MC2W0606-821K	820 ±10%	3.10	0.21
MC2W0606-102K	1000 ±10%	4.45	0.19

► Electrical Characteristics For MC2W0805 Series

Part Number	Inductance [uH]	DCR (max) [Ω]	Rated Current (max) [A]
MC2W0805-100M	10 ±20%	0.07	2.50
MC2W0805-120M	12 ±20%	0.08	2.40
MC2W0805-150M	15 ±20%	0.09	2.10
MC2W0805-180M	18 ±20%	0.10	2.00
MC2W0805-220M	22 ±20%	0.12	1.70
MC2W0805-270M	27 ±20%	0.14	1.60
MC2W0805-330M	33 ±20%	0.17	1.40
MC2W0805-390M	39 ±20%	0.21	1.30
MC2W0805-470M	47 ±20%	0.24	1.20
MC2W0805-560M	56 ±20%	0.31	1.10
MC2W0805-680M	68 ±20%	0.34	1.00
MC2W0805-820M	82 ±20%	0.40	0.93
MC2W0805-101K	100 ±10%	0.52	0.81
MC2W0805-121K	120 ±10%	0.59	0.76
MC2W0805-151K	150 ±10%	0.71	0.67
MC2W0805-181K	180 ±10%	0.89	0.62
MC2W0805-221K	220 ±10%	1.04	0.54
MC2W0805-271K	270 ±10%	1.28	0.49
MC2W0805-331K	330 ±10%	1.47	0.44
MC2W0805-391K	390 ±10%	1.67	0.41
MC2W0805-471K	470 ±10%	1.95	0.38
MC2W0805-561K	560 ±10%	2.83	0.35
MC2W0805-681K	680 ±10%	3.25	0.32
MC2W0805-821K	820 ±10%	3.82	0.31
MC2W0805-102K	1000 ±10%	5.28	0.25
MC2W0805-122K	1200 ±10%	6.03	0.23
MC2W0805-152K	1500 ±10%	7.15	0.21
MC2W0805-182K	1800 ±10%	8.26	0.20
MC2W0805-222K	2200 ±10%	11.10	0.18
MC2W0805-272K	2700 ±10%	13.10	0.16
MC2W0805-332K	3300 ±10%	15.90	0.14
MC2W0805-392K	3900 ±10%	18.00	0.13
MC2W0805-472K	4700 ±10%	23.90	0.12
MC2W0805-562K	5600 ±10%	26.80	0.11
MC2W0805-682K	6800 ±10%	31.70	0.098
MC2W0805-822K	8200 ±10%	46.50	0.088
MC2W0805-103K	10000 ±10%	55.70	0.081

► Electrical Characteristics For MC2W0807 Series

Part Number	Inductance [uH]	DCR (max) [Ω]	Rated Current (max) [A]
MC2W0807-100M	10 ±20%	0.05	2.90
MC2W0807-120M	12 ±20%	0.06	2.50
MC2W0807-150M	15 ±20%	0.07	2.20
MC2W0807-180M	18 ±20%	0.08	1.90
MC2W0807-220M	22 ±20%	0.09	1.80
MC2W0807-270M	27 ±20%	0.11	1.70
MC2W0807-330M	33 ±20%	0.13	1.50
MC2W0807-390M	39 ±20%	0.14	1.30
MC2W0807-470M	47 ±20%	0.15	1.30
MC2W0807-560M	56 ±20%	0.18	1.20
MC2W0807-680M	68 ±20%	0.20	1.10
MC2W0807-820M	82 ±20%	0.24	1.00
MC2W0807-101K	100 ±10%	0.28	0.89
MC2W0807-121K	120 ±10%	0.36	0.81
MC2W0807-151K	150 ±10%	0.42	0.72
MC2W0807-181K	180 ±10%	0.57	0.66
MC2W0807-221K	220 ±10%	0.63	0.57
MC2W0807-271K	270 ±10%	0.88	0.51
MC2W0807-331K	330 ±10%	1.05	0.46
MC2W0807-391K	390 ±10%	1.17	0.44
MC2W0807-471K	470 ±10%	1.34	0.41
MC2W0807-561K	560 ±10%	1.72	0.36
MC2W0807-681K	680 ±10%	1.96	0.33
MC2W0807-821K	820 ±10%	2.56	0.30
MC2W0807-102K	1000 ±10%	2.94	0.27
MC2W0807-122K	1200 ±10%	4.04	0.24
MC2W0807-152K	1500 ±10%	4.70	0.22
MC2W0807-182K	1800 ±10%	5.05	0.20
MC2W0807-222K	2200 ±10%	6.25	0.18
MC2W0807-272K	2700 ±10%	8.72	0.16
MC2W0807-332K	3300 ±10%	10.60	0.15
MC2W0807-392K	3900 ±10%	14.20	0.14
MC2W0807-472K	4700 ±10%	16.70	0.12
MC2W0807-562K	5600 ±10%	18.70	0.11
MC2W0807-682K	6800 ±10%	21.80	0.10
MC2W0807-822K	8200 ±10%	28.70	0.093
MC2W0807-103K	10000 ±10%	33.00	0.084

► Electrical Characteristics For MC2W0809 Series

Part Number	Inductance [μH]	DCR (max) [Ω]	Rated Current (max) [A]
MC2W0809-100M	10 ±20%	0.04	2.60
MC2W0809-120M	12 ±20%	0.04	2.60
MC2W0809-150M	15 ±20%	0.05	2.10
MC2W0809-180M	18 ±20%	0.05	2.00
MC2W0809-220M	22 ±20%	0.06	1.70
MC2W0809-270M	27 ±20%	0.06	1.60
MC2W0809-330M	33 ±20%	0.07	1.40
MC2W0809-390M	39 ±20%	0.08	1.40
MC2W0809-470M	47 ±20%	0.10	1.30
MC2W0809-560M	56 ±20%	0.11	1.20
MC2W0809-680M	68 ±20%	0.14	1.10
MC2W0809-101K	100 ±10%	0.19	0.90
MC2W0809-121K	120 ±10%	0.22	0.82
MC2W0809-151K	150 ±10%	0.27	0.74
MC2W0809-181K	180 ±10%	0.31	0.71
MC2W0809-221K	220 ±10%	0.38	0.64
MC2W0809-271K	270 ±10%	0.53	0.57
MC2W0809-331K	330 ±10%	0.61	0.51
MC2W0809-391K	390 ±10%	0.69	0.48
MC2W0809-471K	470 ±10%	0.89	0.43
MC2W0809-561K	560 ±10%	1.01	0.40
MC2W0809-681K	680 ±10%	1.18	0.35
MC2W0809-821K	820 ±10%	1.57	0.32
MC2W0809-102K	1000 ±10%	1.84	0.30
MC2W0809-122K	1200 ±10%	2.10	0.27
MC2W0809-152K	1500 ±10%	2.80	0.23
MC2W0809-182K	1800 ±10%	3.21	0.21
MC2W0809-222K	2200 ±10%	4.21	0.19
MC2W0809-272K	2700 ±10%	4.94	0.17
MC2W0809-332K	3300 ±10%	6.16	0.15
MC2W0809-392K	3900 ±10%	6.84	0.14
MC2W0809-472K	4700 ±10%	7.89	0.13
MC2W0809-562K	5600 ±10%	11.5	0.12
MC2W0809-682K	6800 ±10%	13.2	0.11
MC2W0809-822K	8200 ±10%	15.2	0.10
MC2W0809-103K	10000 ±10%	22.0	0.089
MC2W0809-123K	12000 ±10%	25.0	0.073
MC2W0809-153K	15000 ±10%	29.1	0.068

► Electrical Characteristics For MC2W1014 Series

Part Number	Inductance [μ H]	DCR (max) [Ω]	Rated Current (max) [A]
MC2W1014-6R3M	6.3 $\pm$ 20%	0.026	4.30
MC2W1014-100M	10 $\pm$ 20%	0.033	4.00
MC2W1014-120M	12 $\pm$ 20%	0.035	3.90
MC2W1014-150M	15 $\pm$ 20%	0.039	3.70
MC2W1014-180M	18 $\pm$ 20%	0.047	3.50
MC2W1014-220M	22 $\pm$ 20%	0.051	3.30
MC2W1014-270M	27 $\pm$ 20%	0.057	3.10
MC2W1014-330M	33 $\pm$ 20%	0.064	2.90
MC2W1014-390M	39 $\pm$ 20%	0.074	2.70
MC2W1014-470M	47 $\pm$ 20%	0.083	2.50
MC2W1014-560M	56 $\pm$ 20%	0.104	2.30
MC2W1014-680M	68 $\pm$ 20%	0.117	2.10
MC2W1014-820M	82 $\pm$ 20%	0.130	1.90
MC2W1014-101K	100 $\pm$ 10%	0.143	1.70
MC2W1014-121K	120 $\pm$ 10%	0.195	1.50
MC2W1014-151K	150 $\pm$ 10%	0.221	1.40
MC2W1014-181K	180 $\pm$ 10%	0.260	1.30
MC2W1014-221K	220 $\pm$ 10%	0.350	1.20
MC2W1014-271K	270 $\pm$ 10%	0.390	1.10
MC2W1014-331K	330 $\pm$ 10%	0.520	1.00
MC2W1014-391K	390 $\pm$ 10%	0.570	0.92
MC2W1014-471K	470 $\pm$ 10%	0.650	0.84
MC2W1014-561K	560 $\pm$ 10%	0.790	0.75
MC2W1014-681K	680 $\pm$ 10%	0.960	0.69
MC2W1014-102K	1000 $\pm$ 10%	1.60	0.52
MC2W1014-122K	1200 $\pm$ 10%	2.20	0.46
MC2W1014-152K	1500 $\pm$ 10%	2.50	0.41
MC2W1014-182K	1800 $\pm$ 10%	2.90	0.36
MC2W1014-222K	2200 $\pm$ 10%	3.20	0.32
MC2W1014-272K	2700 $\pm$ 10%	3.70	0.29
MC2W1014-332K	3300 $\pm$ 10%	5.00	0.27
MC2W1014-392K	3900 $\pm$ 10%	5.60	0.25
MC2W1014-472K	4700 $\pm$ 10%	7.40	0.23
MC2W1014-562K	5600 $\pm$ 10%	8.20	0.21
MC2W1014-682K	6800 $\pm$ 10%	11.9	0.19
MC2W1014-103K	10000 $\pm$ 10%	16.0	0.16
MC2W1014-123K	12000 $\pm$ 10%	21.0	0.15
MC2W1014-153K	15000 $\pm$ 10%	24.0	0.14

- Inductance tested at 1kHz, 0.25V
- Rated current: DC current at which the inductance drops 10% from its value without current



Features

- Very high current capacity
- Epoxy coated ferrite bobbin core
- Fixed lead spacing

Applications

- Electronic appliance
- Power supplies
- TRIAC/SCR Control Circuits

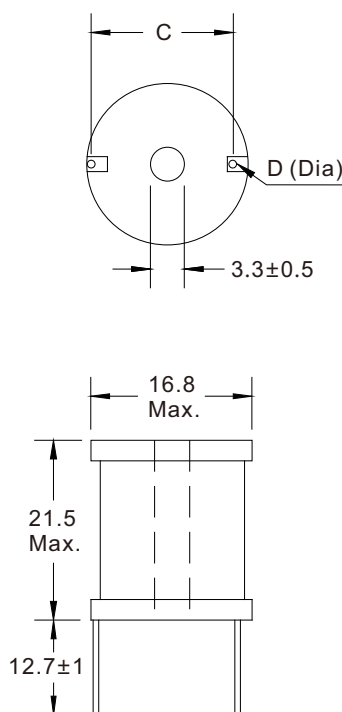
General Specifications

- Storage temp range: -55°C to +105°C
- Operating temp range: -40°C to +105°C
- Moisture Sensitivity Level(MSL): 1



Dimensions and Electrical Characteristics

Unit: [mm]



- Inductance tested at 1kHz, 0.25V
- Rated current: cause 50°C temp rise and 10% max inductance drop
- Hi-pot: 2500Vrms terminal to tube
1000Vrms terminal to core

Part Number	Inductance [uH]	DCR (max) [Ω]	Rated Current [A]	Dim. C Approx.	Dim. D Nom.
MIRD01-1R0M	1.0 ±20%	0.003	9	14.0	1.30
MIRD01-1R2M	1.2 ±20%	0.003	9	14.0	1.30
MIRD01-1R5M	1.5 ±20%	0.004	9	14.0	1.30
MIRD01-1R8M	1.8 ±20%	0.004	9	14.0	1.30
MIRD01-2R2M	2.2 ±20%	0.005	9	14.0	1.30
MIRD01-2R7M	2.7 ±20%	0.005	9	14.0	1.30
MIRD01-3R3M	3.3 ±20%	0.005	9	14.0	1.30
MIRD01-3R9M	3.9 ±20%	0.006	9	14.0	1.30
MIRD01-4R7M	4.7 ±20%	0.007	9	14.0	1.30
MIRD01-5R6M	5.6 ±20%	0.007	9	14.0	1.30
MIRD01-6R8M	6.8 ±20%	0.008	9	14.0	1.30
MIRD01-8R2M	8.2 ±20%	0.009	9	14.0	1.30
MIRD01-100K	10 ±10 %	0.010	9	14.0	1.30
MIRD01-120K	12 ±10 %	0.011	9	14.0	1.30
MIRD01-150K	15 ±10 %	0.015	7.2	13.5	1.10
MIRD01-180K	18 ±10 %	0.016	7.2	13.5	1.10
MIRD01-220K	22 ±10 %	0.020	5.5	13.5	1.10
MIRD01-270K	27 ±10 %	0.030	4.5	13.5	1.00
MIRD01-330K	33 ±10 %	0.040	4.0	13.5	1.00
MIRD01-390K	39 ±10 %	0.046	4.0	13.5	1.00
MIRD01-470K	47 ±10 %	0.062	2.8	13.5	0.90
MIRD01-560K	56 ±10 %	0.069	2.8	13.5	0.90
MIRD01-680K	68 ±10 %	0.077	2.8	12.7	0.80
MIRD01-820K	82 ±10 %	0.083	2.8	12.7	0.80
MIRD01-101K	100 ±10 %	0.095	2.8	12.7	0.80
MIRD01-121K	120 ±10 %	0.127	2.0	12.7	0.75
MIRD01-151K	150 ±10 %	0.181	1.6	12.7	0.75
MIRD01-181K	180 ±10 %	0.217	1.6	12.7	0.63
MIRD01-221K	220 ±10 %	0.240	1.6	12.7	0.63
MIRD01-271K	270 ±10 %	0.300	1.6	11.9	0.50
MIRD01-331K	330 ±10 %	0.336	1.3	11.9	0.50
MIRD01-391K	390 ±10 %	0.460	1.0	11.9	0.50
MIRD01-471K	470 ±10 %	0.636	0.8	11.9	0.50
MIRD01-561K	560 ±10 %	0.696	0.8	11.9	0.50



Features

- Very high current capacity
- Epoxy coated ferrite bobbin core
- Fixed lead spacing

Applications

- Electronic appliance
- Power supplies
- TRIAC/SCR Control Circuits

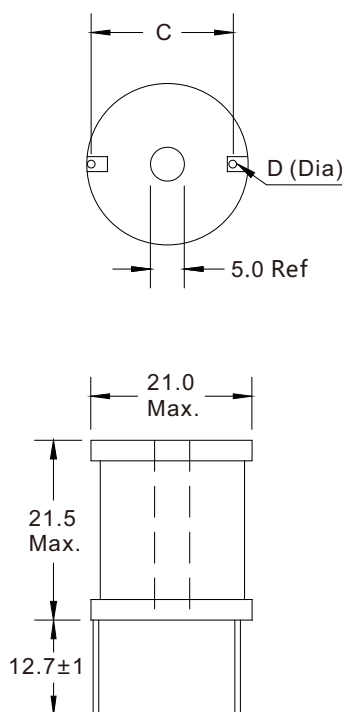
General Specifications

- Storage temp range: -55°C to +105°C
- Operating temp range: -40°C to +105°C
- Moisture Sensitivity Level(MSL): 1



Dimensions and Electrical Characteristics

Unit: [mm]



- Inductance tested at 1kHz, 0.25V
- Rated current: cause 50°C temp rise and 10% max inductance drop
- Hi-pot: 2500Vrms terminal to tube
1000Vrms terminal to core

Part Number	Inductance [uH]	DCR (max) [Ω]	Rated Current [A]	Dim. C Approx.	Dim. D Nom.
MIRD02-1R0M	1.0 ±20%	0.003	11.4	16.00	1.80
MIRD02-1R2M	1.2 ±20%	0.003	11.4	16.00	1.80
MIRD02-1R5M	1.5 ±20%	0.003	11.4	16.00	1.80
MIRD02-1R8M	1.8 ±20%	0.003	11.4	16.00	1.80
MIRD02-2R2M	2.2 ±20%	0.004	11.4	16.00	1.80
MIRD02-2R7M	2.7 ±20%	0.005	11.4	16.00	1.60
MIRD02-3R3M	3.3 ±20%	0.005	11.4	16.00	1.60
MIRD02-3R9M	3.9 ±20%	0.005	11.4	16.00	1.60
MIRD02-4R7M	4.7 ±20%	0.005	11.4	16.00	1.60
MIRD02-5R6M	5.6 ±20%	0.006	11.4	16.00	1.60
MIRD02-6R8M	6.8 ±20%	0.007	11.4	16.00	1.60
MIRD02-8R2M	8.2 ±20%	0.007	11.4	16.00	1.60
MIRD02-100K	10 ±10%	0.009	11.4	16.00	1.60
MIRD02-120K	12 ±10%	0.009	11.4	16.00	1.40
MIRD02-150K	15 ±10%	0.013	9.0	16.00	1.40
MIRD02-180K	18 ±10%	0.018	7.2	16.00	1.30
MIRD02-220K	22 ±10%	0.019	7.2	16.00	1.30
MIRD02-270K	27 ±10%	0.026	5.5	16.00	1.30
MIRD02-330K	33 ±10%	0.029	5.5	15.24	1.10
MIRD02-390K	39 ±10%	0.030	5.5	15.24	1.10
MIRD02-470K	47 ±10%	0.035	5.5	15.75	1.10
MIRD02-560K	56 ±10%	0.039	5.5	15.75	1.00
MIRD02-680K	68 ±10%	0.053	4.8	15.75	1.00
MIRD02-820K	82 ±10%	0.060	4.8	15.75	1.00
MIRD02-101K	100 ±10%	0.080	4.0	15.75	0.90
MIRD02-121K	120 ±10%	0.090	4.0	15.75	0.90
MIRD02-151K	150 ±10%	0.098	4.0	15.75	0.81
MIRD02-181K	180 ±10%	0.110	4.0	15.75	0.80
MIRD02-221K	220 ±10%	0.150	2.8	15.75	0.80
MIRD02-271K	270 ±10%	0.213	2.0	15.24	0.75
MIRD02-331K	330 ±10%	0.305	1.6	15.24	0.75
MIRD02-391K	390 ±10%	0.320	1.6	15.24	0.65
MIRD02-471K	470 ±10%	0.355	1.6	15.24	0.65
MIRD02-561K	560 ±10%	0.388	1.6	15.24	0.65
MIRD02-681K	680 ±10%	0.430	1.6	15.24	0.65
MIRD02-821K	820 ±10%	0.590	1.3	15.24	0.60
MIRD02-102K	1000 ±10%	0.818	1.0	15.24	0.50
MIRD02-122K	1200 ±10%	1.14	0.8	15.24	0.50
MIRD02-152K	1500 ±10%	1.26	0.8	15.24	0.50
MIRD02-182K	1800 ±10%	1.39	0.8	15.24	0.45
MIRD02-222K	2200 ±10%	1.54	0.8	15.24	0.45



Features

- Very high current capacity
- Epoxy coated ferrite bobbin core
- Fixed lead spacing

Applications

- Electronic appliance
- Power supplies
- TRIAC/SCR Control Circuits

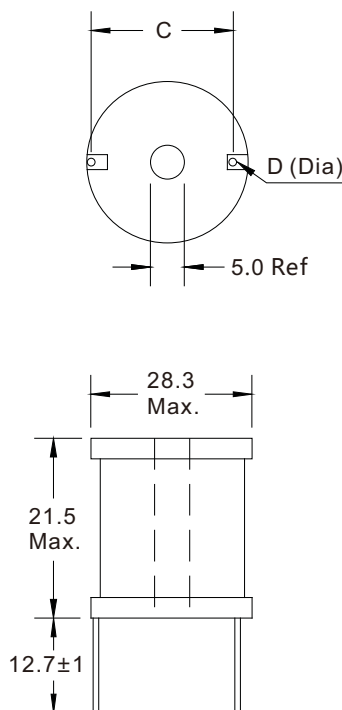
General Specifications

- Storage temp range: -55°C to +105°C
- Operating temp range: -40°C to +105°C
- Moisture Sensitivity Level(MSL): 1



Dimensions and Electrical Characteristics

Unit: [mm]



- Inductance tested at 1kHz, 0.25V
- Rated current: cause 50°C temp rise and 10% max inductance drop
- Hi-pot: 2500Vrms terminal to tube
1000Vrms terminal to core

Part Number	Inductance [uH]	DCR (max) [Ω]	Rated Current [A]	Dim. C Approx.	Dim. D Nom.
MIRD03-1R0M	1.0 ±20%	0.003	21	20.32	2.00
MIRD03-1R2M	1.2 ±20%	0.003	21	20.32	2.00
MIRD03-1R5M	1.5 ±20%	0.003	21	20.32	2.00
MIRD03-1R8M	1.8 ±20%	0.003	21	20.32	2.00
MIRD03-2R2M	2.2 ±20%	0.003	21	20.32	2.00
MIRD03-2R7M	2.7 ±20%	0.003	21	20.32	2.00
MIRD03-3R3M	3.3 ±20%	0.003	21	20.32	2.00
MIRD03-3R9M	3.9 ±20%	0.003	21	20.32	2.00
MIRD03-4R7M	4.7 ±20%	0.003	21	20.32	2.00
MIRD03-5R6M	5.6 ±20%	0.003	21	20.83	2.00
MIRD03-6R8M	6.8 ±20%	0.004	21	20.83	2.00
MIRD03-8R2M	8.2 ±20%	0.004	21	20.83	2.00
MIRD03-100K	10 ±10%	0.006	17	20.83	2.00
MIRD03-120K	12 ±10%	0.008	13.5	20.32	1.80
MIRD03-150K	15 ±10%	0.009	13.5	20.32	1.80
MIRD03-180K	18 ±10%	0.010	13.5	20.32	1.80
MIRD03-220K	22 ±10%	0.011	13.5	20.07	1.60
MIRD03-270K	27 ±10%	0.012	13.5	20.07	1.60
MIRD03-330K	33 ±10%	0.017	13.5	20.07	1.60
MIRD03-390K	39 ±10%	0.022	11.4	20.07	1.40
MIRD03-470K	47 ±10%	0.024	9.0	20.07	1.40
MIRD03-560K	56 ±10%	0.026	9.0	20.07	1.40
MIRD03-680K	68 ±10%	0.029	9.0	20.07	1.40
MIRD03-820K	82 ±10%	0.032	9.0	20.07	1.40
MIRD03-101K	100 ±10%	0.034	9.0	20.07	1.40
MIRD03-121K	120 ±10%	0.046	7.2	20.07	1.40
MIRD03-151K	150 ±10%	0.064	5.5	19.56	1.10
MIRD03-181K	180 ±10%	0.072	5.5	19.56	1.10
MIRD03-221K	220 ±10%	0.080	5.5	19.56	1.00
MIRD03-271K	270 ±10%	0.110	4.5	19.56	1.00
MIRD03-331K	330 ±10%	0.122	4.5	19.56	1.00
MIRD03-391K	390 ±10%	0.169	4.0	19.56	0.90
MIRD03-471K	470 ±10%	0.187	4.0	19.56	0.90
MIRD03-561K	560 ±10%	0.205	4.0	19.56	0.80
MIRD03-681K	680 ±10%	0.256	2.8	19.56	0.80
MIRD03-821K	820 ±10%	0.288	2.8	19.56	0.80
MIRD03-102K	1000 ±10%	0.426	2.0	19.05	0.75
MIRD03-122K	1200 ±10%	0.426	2.0	19.05	0.75
MIRD03-152K	1500 ±10%	0.518	2.0	19.05	0.65
MIRD03-182K	1800 ±10%	0.705	1.6	19.05	0.65
MIRD03-222K	2200 ±10%	1.02	1.3	19.05	0.65
MIRD03-272K	2700 ±10%	1.14	1.3	19.05	0.57
MIRD03-332K	3300 ±10%	1.27	1.3	19.05	0.50
MIRD03-392K	3900 ±10%	1.67	1.0	19.05	0.50
MIRD03-472K	4700 ±10%	1.86	1.0	19.05	0.50



Features

- Very high current capacity
- Epoxy coated ferrite bobbin core
- Fixed lead spacing

Applications

- Electronic appliance
- Power supplies
- TRIAC/SCR Control Circuits

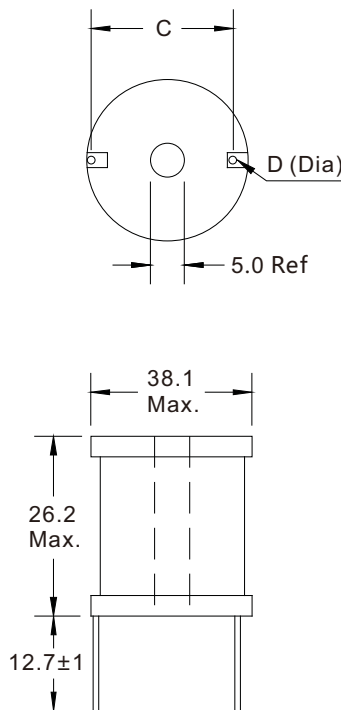
General Specifications

- Storage temp range: -55°C to +105°C
- Operating temp range: -40°C to +105°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions and Electrical Characteristics

Unit: [mm]



- Inductance tested at 1kHz, 0.25V
- Rated current: cause 50°C temp rise and 10% max inductance drop
- Hi-pot: 2500Vrms terminal to tube 1000Vrms terminal to core

Part Number	Inductance [uH]	DCR (max) [Ω]	Rated Current [A]	Dim. C Approx.	Dim. D Nom.
MIRD04-1R8M	1.8 ±20%	0.002	34.5	28.19	2.00
MIRD04-2R2M	2.2 ±20%	0.002	34.5	28.19	2.00
MIRD04-2R7M	2.7 ±20%	0.003	28.1	28.19	2.00
MIRD04-3R3M	3.3 ±20%	0.003	28.1	28.19	2.00
MIRD04-3R9M	3.9 ±20%	0.003	28.1	28.19	2.00
MIRD04-4R7M	4.7 ±20%	0.003	28.1	28.19	2.00
MIRD04-5R6M	5.6 ±20%	0.004	24.4	28.19	2.00
MIRD04-6R8M	6.8 ±20%	0.004	24.4	29.21	2.00
MIRD04-8R2M	8.2 ±20%	0.004	24.4	29.21	2.00
MIRD04-100K	10 ±10%	0.005	21.8	29.21	2.00
MIRD04-120K	12 ±10%	0.005	21.8	29.21	2.00
MIRD04-150K	15 ±10%	0.006	19.9	29.21	2.00
MIRD04-180K	18 ±10%	0.008	17.2	29.21	2.00
MIRD04-220K	22 ±10%	0.009	16.2	29.21	2.00
MIRD04-270K	27 ±10%	0.010	16.0	29.21	2.00
MIRD04-330K	33 ±10%	0.011	15.8	29.21	1.80
MIRD04-390K	39 ±10%	0.012	15.1	29.21	1.80
MIRD04-470K	47 ±10%	0.018	12.3	29.21	1.80
MIRD04-560K	56 ±10%	0.019	12.0	29.21	1.60
MIRD04-680K	68 ±10%	0.021	11.4	29.21	1.60
MIRD04-820K	82 ±10%	0.023	10.9	29.21	1.40
MIRD04-101K	100 ±10%	0.025	10.5	29.21	1.40
MIRD04-121K	120 ±10%	0.028	9.9	29.21	1.40
MIRD04-151K	150 ±10%	0.040	8.3	29.21	1.40
MIRD04-181K	180 ±10%	0.045	7.8	29.21	1.40
MIRD04-221K	220 ±10%	0.050	7.4	29.21	1.40
MIRD04-271K	270 ±10%	0.056	7.0	29.21	1.40
MIRD04-331K	330 ±10%	0.074	6.1	29.21	1.40
MIRD04-391K	390 ±10%	0.082	5.8	29.21	1.10
MIRD04-471K	470 ±10%	0.114	4.9	29.21	1.10
MIRD04-561K	560 ±10%	0.125	4.7	29.21	1.00
MIRD04-681K	680 ±10%	0.139	4.4	29.21	1.00
MIRD04-821K	820 ±10%	0.154	4.2	29.21	1.00
MIRD04-102K	1000 ±10%	0.216	3.6	29.21	1.00
MIRD04-122K	1200 ±10%	0.232	3.4	28.96	0.90
MIRD04-152K	1500 ±10%	0.324	2.9	28.96	0.90
MIRD04-182K	1800 ±10%	0.360	2.8	28.96	0.90
MIRD04-222K	2200 ±10%	0.494	2.4	27.94	0.80
MIRD04-272K	2700 ±10%	0.555	2.2	28.45	0.80
MIRD04-332K	3300 ±10%	0.773	1.9	27.94	0.75
MIRD04-392K	3900 ±10%	0.845	1.8	27.94	0.75
MIRD04-472K	4700 ±10%	1.14	1.6	28.45	0.75
MIRD04-562K	5600 ±10%	1.60	1.3	27.69	0.65
MIRD04-682K	6800 ±10%	1.76	1.2	28.45	0.65
MIRD04-822K	8200 ±10%	1.95	1.2	27.69	0.57
MIRD04-103K	10000 ±10%	2.76	1.0	28.19	0.57



Features

- Very high current capacity
- Epoxy coated ferrite bobbin core
- Fixed lead spacing

Applications

- Electronic appliance
- Power supplies
- TRIAC/SCR Control Circuits

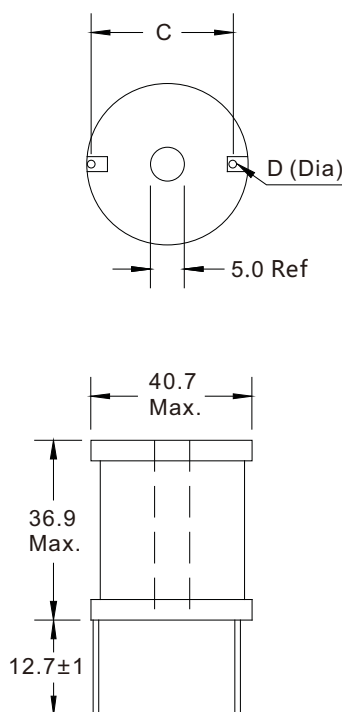
General Specifications

- Storage temp range: -55°C to +105°C
- Operating temp range: -40°C to +105°C
- Moisture Sensitivity Level(MSL): 1



Dimensions and Electrical Characteristics

Unit: [mm]



- Inductance tested at 1kHz, 0.25V
- Rated current: cause 50°C temp rise and 10% max inductance drop
- Hi-pot: 2500Vrms terminal to tube
1000Vrms terminal to core

Part Number	Inductance [uH]	DCR (max) [Ω]	Rated Current [A]	Dim. C Approx.	Dim. D Nom.
MIRD05-1R8M	1.8 ±20%	0.002	35.0	28.19	2.60
MIRD05-2R2M	2.2 ±20%	0.002	35.0	28.19	2.60
MIRD05-2R7M	2.7 ±20%	0.002	35.0	28.19	2.60
MIRD05-3R3M	3.3 ±20%	0.002	35.0	28.19	2.60
MIRD05-3R9M	3.9 ±20%	0.003	35.0	28.19	2.60
MIRD05-4R7M	4.7 ±20%	0.003	35.0	28.19	2.60
MIRD05-5R6M	5.6 ±20%	0.003	35.0	28.19	2.60
MIRD05-6R8M	6.8 ±20%	0.003	35.0	28.19	2.60
MIRD05-8R2M	8.2 ±20%	0.003	35.0	28.19	2.60
MIRD05-100K	10 ±10%	0.004	35.0	28.19	2.60
MIRD05-120K	12 ±10%	0.004	35.0	29.46	2.60
MIRD05-150K	15 ±10%	0.005	35.0	29.46	2.60
MIRD05-180K	18 ±10%	0.007	27.0	29.46	2.40
MIRD05-220K	22 ±10%	0.007	27.0	29.46	2.40
MIRD05-270K	27 ±10%	0.008	27.0	29.46	2.40
MIRD05-330K	33 ±10%	0.009	27.0	29.46	2.40
MIRD05-390K	39 ±10%	0.010	27.0	29.46	2.40
MIRD05-470K	47 ±10%	0.011	27.0	29.46	2.40
MIRD05-560K	56 ±10%	0.013	21.0	29.46	2.40
MIRD05-680K	68 ±10%	0.015	21.0	31.75	2.10
MIRD05-820K	82 ±10%	0.017	21.0	32.51	2.10
MIRD05-101K	100 ±10%	0.018	21.0	31.75	2.10
MIRD05-121K	120 ±10%	0.022	17.0	29.46	1.90
MIRD05-151K	150 ±10%	0.025	17.0	29.46	1.90
MIRD05-181K	180 ±10%	0.035	13.5	27.94	1.70
MIRD05-221K	220 ±10%	0.040	13.5	27.94	1.70
MIRD05-271K	270 ±10%	0.044	13.5	27.94	1.70
MIRD05-331K	330 ±10%	0.049	13.5	28.19	1.70
MIRD05-391K	390 ±10%	0.070	11.4	29.21	1.50
MIRD05-471K	470 ±10%	0.078	11.4	27.18	1.50
MIRD05-561K	560 ±10%	0.105	9.0	27.18	1.40
MIRD05-681K	680 ±10%	0.115	9.0	27.18	1.40
MIRD05-821K	820 ±10%	0.127	9.0	28.45	1.40
MIRD05-102K	1000 ±10%	0.176	7.2	28.45	1.20
MIRD05-122K	1200 ±10%	0.195	7.2	28.45	1.20
MIRD05-152K	1500 ±10%	0.274	5.5	28.45	1.10
MIRD05-182K	1800 ±10%	0.302	5.5	28.70	1.10
MIRD05-222K	2200 ±10%	0.338	5.5	29.46	1.10
MIRD05-272K	2700 ±10%	0.459	4.5	25.91	1.00
MIRD05-332K	3300 ±10%	0.642	4.0	25.91	0.90
MIRD05-392K	3900 ±10%	0.699	4.0	28.96	0.90
MIRD05-472K	4700 ±10%	0.775	4.0	28.96	0.90
MIRD05-562K	5600 ±10%	0.843	4.0	28.96	0.90
MIRD05-682K	6800 ±10%	1.15	2.8	26.92	0.80
MIRD05-822K	8200 ±10%	1.26	2.8	29.46	0.80
MIRD05-103K	10000 ±10%	1.74	2.0	28.70	0.70
MIRD05-123K	12000 ±10%	1.92	2.0	28.70	0.70
MIRD05-153K	15000 ±10%	2.17	2.0	28.70	0.70



Features

- Very high current capacity
- Epoxy coated ferrite bobbin core
- Fixed lead spacing

Applications

- Electronic appliance
- Power supplies
- TRIAC/SCR Control Circuits

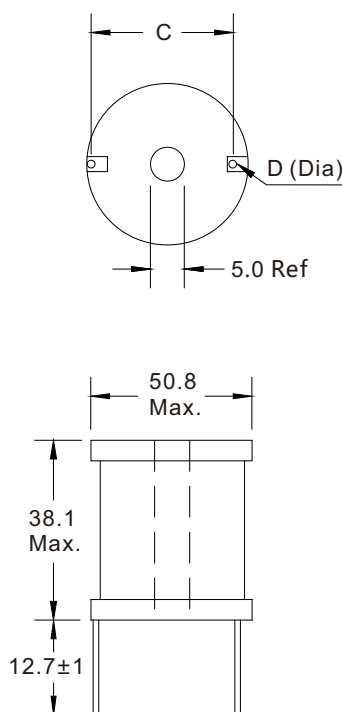
General Specifications

- Storage temp range: -55°C to +105°C
- Operating temp range: -40°C to +105°C
- Moisture Sensitivity Level(MSL): 1



Dimensions and Electrical Characteristics

Unit: [mm]



- Inductance tested at 1kHz, 0.25V
- Rated current: cause 50°C temp rise and 10% max inductance drop
- Hi-pot: 2500Vrms terminal to tube
1000Vrms terminal to core

Part Number	Inductance [uH]	DCR (max) [Ω]	Rated Current [A]	Dim. C Approx.	Dim. D Nom.
MIRD06-4R7M	4.7 ±20%	0.002	35.0	35.56	2.60
MIRD06-5R6M	5.6 ±20%	0.002	35.0	35.56	2.60
MIRD06-6R8M	6.8 ±20%	0.003	35.0	35.56	2.60
MIRD06-8R2M	8.2 ±20%	0.003	35.0	35.56	2.60
MIRD06-100K	10 ±10%	0.003	35.0	37.60	2.60
MIRD06-120K	12 ±10%	0.004	35.0	37.60	2.60
MIRD06-150K	15 ±10%	0.004	35.0	37.60	2.60
MIRD06-180K	18 ±10%	0.005	35.0	37.60	2.60
MIRD06-220K	22 ±10%	0.006	35.0	37.60	2.60
MIRD06-270K	27 ±10%	0.006	35.0	37.60	2.60
MIRD06-330K	33 ±10%	0.006	35.0	37.60	2.60
MIRD06-390K	39 ±10%	0.008	35.0	37.60	2.60
MIRD06-470K	47 ±10%	0.008	35.0	37.60	2.60
MIRD06-560K	56 ±10%	0.009	35.0	37.60	2.60
MIRD06-680K	68 ±10%	0.009	35.0	37.60	2.60
MIRD06-820K	82 ±10%	0.010	35.0	37.60	2.60
MIRD06-101K	100 ±10%	0.014	27.0	38.86	2.40
MIRD06-121K	120 ±10%	0.015	27.0	38.86	2.40
MIRD06-151K	150 ±10%	0.023	21.0	37.85	2.10
MIRD06-181K	180 ±10%	0.025	21.0	37.85	2.10
MIRD06-221K	220 ±10%	0.028	21.0	37.85	2.10
MIRD06-271K	270 ±10%	0.030	21.0	37.85	2.10
MIRD06-331K	330 ±10%	0.040	17.0	33.27	1.90
MIRD06-391K	390 ±10%	0.055	13.5	33.27	1.70
MIRD06-471K	470 ±10%	0.061	13.5	33.27	1.70
MIRD06-561K	560 ±10%	0.068	13.5	35.56	1.70
MIRD06-681K	680 ±10%	0.094	11.4	36.07	1.50
MIRD06-821K	820 ±10%	0.104	11.4	36.07	1.50
MIRD06-102K	1000 ±10%	0.143	9.0	34.55	1.40
MIRD06-122K	1200 ±10%	0.156	9.0	34.55	1.40
MIRD06-152K	1500 ±10%	0.219	7.2	33.27	1.20
MIRD06-182K	1800 ±10%	0.241	7.2	33.27	1.20
MIRD06-222K	2200 ±10%	0.270	7.2	35.56	1.20
MIRD06-272K	2700 ±10%	0.364	5.5	34.54	1.10
MIRD06-332K	3300 ±10%	0.498	4.5	31.50	1.00
MIRD06-392K	3900 ±10%	0.548	4.5	33.53	1.00
MIRD06-472K	4700 ±10%	0.608	4.5	33.53	1.00
MIRD06-562K	5600 ±10%	0.671	4.5	34.54	1.00
MIRD06-682K	6800 ±10%	0.750	4.5	35.56	1.00
MIRD06-822K	8200 ±10%	1.030	4.0	36.83	0.90
MIRD06-103K	10000 ±10%	1.160	4.0	36.83	0.90
MIRD06-123K	12000 ±10%	1.540	2.8	35.56	0.80
MIRD06-153K	15000 ±10%	1.750	2.8	35.56	0.70
MIRD06-183K	18000 ±10%	1.940	2.8	36.83	0.70
MIRD06-203K	22000 ±10%	2.740	2.0	34.80	0.70
MIRD06-273K	27000 ±10%	3.710	1.7	34.80	0.63
MIRD06-333K	33000 ±10%	4.160	1.7	34.80	0.63
MIRD06-393K	39000 ±10%	5.560	1.4	34.30	0.63



Features

- Very high current capacity
- Epoxy coated ferrite bobbin core
- Fixed lead spacing

Applications

- Electronic appliance
- Power supplies
- TRIAC/SCR Control Circuits

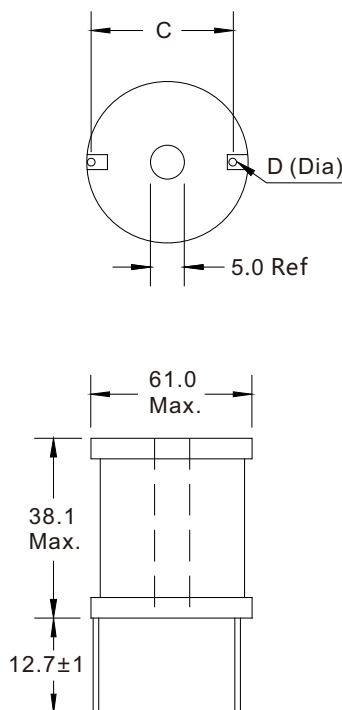
General Specifications

- Storage temp range: -55°C to +105°C
- Operating temp range: -40°C to +105°C
- Moisture Sensitivity Level(MSL): 1



Dimensions and Electrical Characteristics

Unit: [mm]



- Inductance tested at 1kHz, 0.25V
- Rated current: cause 50°C temp rise and 10% max inductance drop
- Hi-pot: 2500Vrms terminal to tube
1000Vrms terminal to core

Part Number	Inductance [uH]	DCR (max) [Ω]	Rated Current [A]	Dim. C Approx.	Dim. D Nom.
MIRD07-5R6M	5.6 ±20%	0.0018	45.0	40.64	3.00
MIRD07-6R8M	6.8 ±20%	0.0021	45.0	40.64	3.00
MIRD07-8R2M	8.2 ±20%	0.0022	45.0	40.64	3.00
MIRD07-100K	10 ±10%	0.0024	45.0	40.64	3.00
MIRD07-120K	12 ±10%	0.0025	45.0	43.18	3.00
MIRD07-150K	15 ±10%	0.0028	42.0	43.18	3.00
MIRD07-180K	18 ±10%	0.0032	40.0	43.18	3.00
MIRD07-220K	22 ±10%	0.0036	38.0	43.18	3.00
MIRD07-270K	27 ±10%	0.0042	38.0	43.18	3.00
MIRD07-330K	33 ±10%	0.0045	37.0	43.18	3.00
MIRD07-390K	39 ±10%	0.0048	36.0	45.72	3.00
MIRD07-470K	47 ±10%	0.0057	35.0	45.72	3.00
MIRD07-560K	56 ±10%	0.0069	35.0	45.72	3.00
MIRD07-680K	68 ±10%	0.0078	35.0	45.72	3.00
MIRD07-820K	82 ±10%	0.0093	35.0	45.72	3.00
MIRD07-101K	100 ±10%	0.0103	27.0	45.72	3.00
MIRD07-121K	120 ±10%	0.0108	27.0	45.72	3.00
MIRD07-151K	150 ±10%	0.0120	25.0	45.72	3.00
MIRD07-181K	180 ±10%	0.0156	22.0	45.72	3.00
MIRD07-221K	220 ±10%	0.0168	22.0	45.72	2.60
MIRD07-271K	270 ±10%	0.0228	21.0	45.72	2.60
MIRD07-331K	330 ±10%	0.0300	17.0	45.72	2.40
MIRD07-391K	390 ±10%	0.0432	13.5	43.18	2.10
MIRD07-471K	470 ±10%	0.0456	13.5	43.18	1.90
MIRD07-561K	560 ±10%	0.0480	13.5	44.45	1.90
MIRD07-681K	680 ±10%	0.0516	12.0	45.72	1.90
MIRD07-821K	820 ±10%	0.0648	11.5	45.72	1.90
MIRD07-102K	1000 ±10%	0.0936	10.0	44.45	1.70
MIRD07-122K	1200 ±10%	0.1020	9.5	45.21	1.70
MIRD07-152K	1500 ±10%	0.1176	8.0	45.72	1.70
MIRD07-182K	1800 ±10%	0.1536	7.5	43.18	1.50
MIRD07-222K	2200 ±10%	0.2160	7.2	43.18	1.40
MIRD07-272K	2700 ±10%	0.2424	6.0	44.45	1.40
MIRD07-332K	3300 ±10%	0.2640	5.5	45.72	1.40
MIRD07-392K	3900 ±10%	0.3480	5.2	44.75	1.20
MIRD07-472K	4700 ±10%	0.3924	5.0	45.21	1.20
MIRD07-562K	5600 ±10%	0.432	4.7	45.72	1.20
MIRD07-682K	6800 ±10%	0.594	4.5	43.18	1.10
MIRD07-822K	8200 ±10%	0.660	4.0	44.45	1.10
MIRD07-103K	10000 ±10%	0.756	4.0	45.72	1.10
MIRD07-123K	12000 ±10%	0.984	3.5	45.72	1.00
MIRD07-153K	15000 ±10%	1.416	2.8	44.45	0.90
MIRD07-183K	18000 ±10%	1.524	2.8	45.21	0.90
MIRD07-223K	22000 ±10%	1.800	2.3	45.72	0.90
MIRD07-273K	27000 ±10%	2.376	2.0	44.45	0.80
MIRD07-333K	33000 ±10%	2.640	1.9	45.72	0.80
MIRD07-393K	39000 ±10%	3.576	1.6	44.45	0.70
MIRD07-473K	47000 ±10%	3.936	1.6	45.21	0.70



Features

- Encapsulated in a resin housing
- Meets UL 94V-0 flammability standard
- Ideal for power supply line applications

Applications

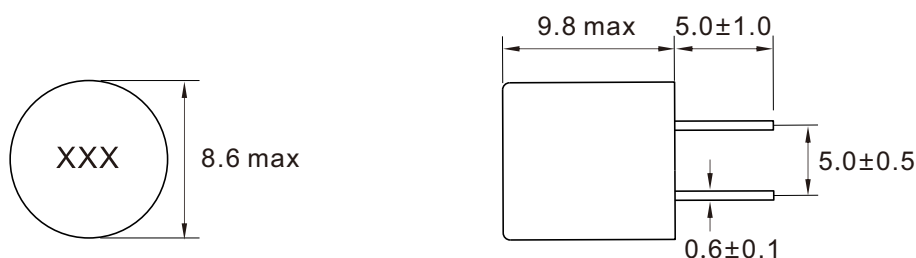
- VCRs
- Switching Power Supply
- Telecommunication devices

General Specifications

- Storage temp range: -40°C to +105°C
- Operating temp range: -40°C to +105°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Electrical Characteristics @ 25°C

Part Number	Inductance [μH]	DCR (max) [Ω]	Isat (max) [A]	Irms (max) [A]
TSL0709-1R0M	1.0 ±20%	0.006	6.6	5.0
TSL0709-1R5M	1.5 ±20%	0.008	5.4	4.3
TSL0709-2R2M	2.2 ±20%	0.011	4.0	3.7
TSL0709-3R3M	3.3 ±20%	0.018	3.6	2.9
TSL0709-4R7M	4.7 ±20%	0.022	3.1	2.6
TSL0709-6R8M	6.8 ±20%	0.028	2.5	2.3
TSL0709-100K	10 ±10%	0.043	2.1	1.9
TSL0709-150K	15 ±10%	0.056	1.7	1.6
TSL0709-220K	22 ±10%	0.086	1.4	1.3
TSL0709-330K	33 ±10%	0.14	1.1	1.0
TSL0709-470K	47 ±10%	0.17	0.96	0.94
TSL0709-680K	68 ±10%	0.28	0.79	0.73
TSL0709-101K	100 ±10%	0.33	0.66	0.67
TSL0709-151K	150 ±10%	0.56	0.53	0.52
TSL0709-221K	220 ±10%	0.72	0.44	0.46
TSL0709-331K	330 ±10%	1.1	0.36	0.37
TSL0709-471K	470 ±10%	1.7	0.30	0.30
TSL0709-681K	680 ±10%	2.3	0.25	0.26
TSL0709-102K	1000 ±10%	4.3	0.20	0.19
TSL0709-152K	1500 ±10%	5.0	0.17	0.16

- Inductance tested at 1kHz, 0.25V
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 20% from its value without current



Features

- Encapsulated in a resin housing
- Meets UL 94V-0 flammability standard
- Ideal for power supply line applications

Applications

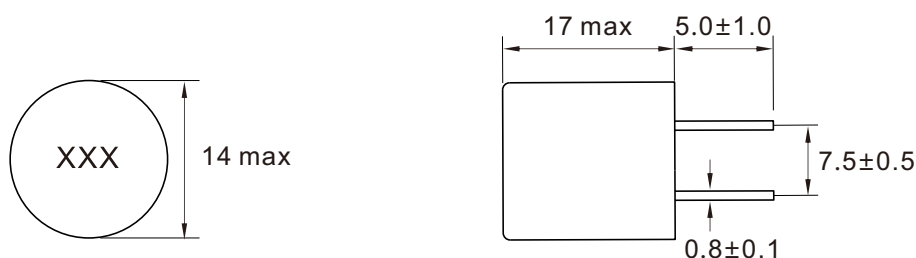
- VCRs
- Switching Power Supply
- Telecommunication devices

General Specifications

- Storage temp range: -40°C to +105°C
- Operating temp range: -40°C to +105°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Electrical Characteristics @ 25°C

Part Number	Inductance [μH]	DCR (max) [Ω]	Isat (max) [A]	Irms (max) [A]
TSL1315-100K	10 ±10%	0.023	12.0	5.1
TSL1315-150K	15 ±10%	0.028	9.5	4.5
TSL1315-220K	22 ±10%	0.035	8.2	4.2
TSL1315-330K	33 ±10%	0.043	6.8	3.7
TSL1315-470K	47 ±10%	0.052	5.7	3.4
TSL1315-680K	68 ±10%	0.068	4.8	3.0
TSL1315-101K	100 ±10%	0.097	3.9	2.5
TSL1315-151K	150 ±10%	0.140	3.2	2.1
TSL1315-221K	220 ±10%	0.20	2.7	1.7
TSL1315-331K	330 ±10%	0.30	2.1	1.4
TSL1315-471K	470 ±10%	0.43	1.8	1.1
TSL1315-681K	680 ±10%	0.61	1.5	0.99
TSL1315-102J	1000 ±5%	1.0	1.2	0.78
TSL1315-152J	1500 ±5%	1.3	1.0	0.68
TSL1315-222J	2200 ±5%	2.0	0.83	0.55
TSL1315-332J	3300 ±5%	3.1	0.69	0.44
TSL1315-472J	4700 ±5%	4.4	0.58	0.37
TSL1315-682J	6800 ±5%	6.5	0.46	0.30
TSL1315-103J	10000 ±5%	10.0	0.40	0.24

- Inductance tested at 1kHz, 0.25V
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 20% from its value without current



Features

- Ferrite drum core construction
- Magnetically shielded
- Custom design on request

General Specifications

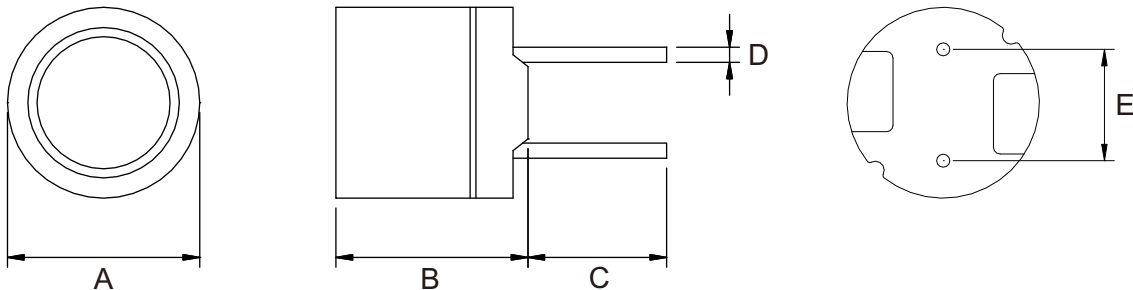
- Storage temp range: -40°C to +85°C
- Operating temp range: -25°C to +85°C
- Moisture Sensitivity Level(MSL): 1

Application:

- EMI filter
- Signal filtering
- Power supply filter
- Switching power supply



► Dimensions & Configurations (Unit:mm)



Type	A (max)	B (max)	C ± 1	D ± 0.1	E ± 0.5
MC2W0807C	8.3	7.5	5.0	0.7	5
MC2W1008C	10.5	8.5	3.5	0.7	5
MC2W1010C	10.5	10.5	3.5	0.7	5

► Electrical Characteristics For MC2W0807C Series

Part Number	Inductance [μH]	DCR(max) [Ω]	IDC [A]
MC2W0807C-1R2M	1.2 ±20%	0.018	4.14
MC2W0807C-1R7M	1.7 ±20%	0.022	3.75
MC2W0807C-2R3M	2.3 ±20%	0.025	3.45
MC2W0807C-3R0M	3.0 ±20%	0.028	3.25
MC2W0807C-3R9M	3.9 ±20%	0.031	3.08
MC2W0807C-4R7M	4.7 ±20%	0.035	2.94
MC2W0807C-5R6M	5.6 ±20%	0.039	2.82
MC2W0807C-7R0M	7.0 ±20%	0.043	2.68
MC2W0807C-8R2M	8.2 ±20%	0.047	2.55
MC2W0807C-100M	10 ±20%	0.050	2.40
MC2W0807C-150M	15 ±20%	0.062	1.95
MC2W0807C-220M	22 ±20%	0.080	1.60
MC2W0807C-330M	33 ±20%	0.14	1.30
MC2W0807C-470M	47 ±20%	0.17	1.10
MC2W0807C-560M	56 ±20%	0.19	0.99
MC2W0807C-680M	68 ±20%	0.21	0.89
MC2W0807C-101M	100 ±20%	0.32	0.74
MC2W0807C-151M	150 ±20%	0.51	0.60
MC2W0807C-221M	220 ±20%	0.76	0.50
MC2W0807C-331M	330 ±20%	0.97	0.41
MC2W0807C-471M	460 ±20%	1.44	0.34
MC2W0807C-561M	560 ±20%	1.61	0.31
MC2W0807C-681M	680 ±20%	2.07	0.28
MC2W0807C-102M	1000 ±20%	2.72	0.23
MC2W0807C-152M	1500 ±20%	4.50	0.19
MC2W0807C-222M	2200 ±20%	7.56	0.16
MC2W0807C-332M	3300 ±20%	9.74	0.13
MC2W0807C-392M	3900 ±20%	12.9	0.12
MC2W0807C-472M	4700 ±20%	14.7	0.11

- Inductance tested at 1kHz, 0.25V
- Idc: DC current at which the inductance drops 10%(typ) from its value without current

► Electrical Characteristics For MC2W1008C Series

Part Number	Inductance [μH]	DCR(max) [Ω]	IDC [A]
MC2W1008C-1R0N	1.0 ±30%	6.5m	9.15
MC2W1008C-1R5N	1.5 ±30%	8.5m	7.14
MC2W1008C-2R2N	2.2 ±30%	9.5m	6.05
MC2W1008C-3R3N	3.3 ±30%	13.5m	4.90
MC2W1008C-4R3N	4.3 ±30%	14.5m	4.25
MC2W1008C-5R6N	5.6 ±30%	18.5m	3.65
MC2W1008C-6R8N	6.8 ±30%	20.0m	3.40
MC2W1008C-8R2N	8.2 ±30%	20.5m	3.00
MC2W1008C-100M	10 ±20%	0.05	2.80
MC2W1008C-120M	12 ±20%	0.06	2.50
MC2W1008C-150M	15 ±20%	0.07	2.30
MC2W1008C-180M	18 ±20%	0.08	2.10
MC2W1008C-220M	22 ±20%	0.09	2.00
MC2W1008C-270M	27 ±20%	0.10	1.76
MC2W1008C-330M	33 ±20%	0.11	1.60
MC2W1008C-390M	39 ±20%	0.12	1.38
MC2W1008C-470M	47 ±20%	0.14	1.28
MC2W1008C-560M	56 ±20%	0.15	1.20
MC2W1008C-680M	68 ±20%	0.16	1.00
MC2W1008C-820M	82 ±20%	0.18	0.96
MC2W1008C-101M	100 ±20%	0.20	0.92
MC2W1008C-121M	120 ±20%	0.24	0.80
MC2W1008C-151M	150 ±20%	0.35	0.73
MC2W1008C-181M	180 ±20%	0.40	0.64
MC2W1008C-221M	220 ±20%	0.54	0.61
MC2W1008C-271M	270 ±20%	0.76	0.56
MC2W1008C-331M	330 ±20%	0.86	0.50
MC2W1008C-391M	390 ±20%	0.93	0.44
MC2W1008C-471M	470 ±20%	1.23	0.41
MC2W1008C-561M	560 ±20%	1.34	0.38
MC2W1008C-681M	680 ±20%	1.53	0.34
MC2W1008C-821M	820 ±20%	2.10	0.32
MC2W1008C-102M	1000 ±20%	2.30	0.28

- Inductance tested at 1kHz, 0.25V
- Idc: DC current at which the inductance drops 10%(typ) from its value without current

► Electrical Characteristics For MC2W1010C Series

Part Number	Inductance [μH]	DCR(max) [Ω]	IDC [A]
MC2W1010C-100M	10 ±20%	0.023	3.51
MC2W1010C-120M	12 ±20%	0.024	3.24
MC2W1010C-150M	15 ±20%	0.036	2.88
MC2W1010C-180M	18 ±20%	0.039	2.61
MC2W1010C-220M	22 ±20%	0.042	2.34
MC2W1010C-270M	27 ±20%	0.045	2.16
MC2W1010C-330M	33 ±20%	0.057	1.89
MC2W1010C-390M	39 ±20%	0.076	1.80
MC2W1010C-470M	47 ±20%	0.10	1.62
MC2W1010C-560M	56 ±20%	0.11	1.44
MC2W1010C-680M	68 ±20%	0.15	1.35
MC2W1010C-820M	82 ±20%	0.16	1.26
MC2W1010C-101M	100 ±20%	0.19	1.08
MC2W1010C-121M	120 ±20%	0.21	0.99
MC2W1010C-151M	150 ±20%	0.23	0.90
MC2W1010C-181M	180 ±20%	0.26	0.82
MC2W1010C-221M	220 ±20%	0.29	0.74
MC2W1010C-271M	270 ±20%	0.36	0.67
MC2W1010C-331M	330 ±20%	0.51	0.61
MC2W1010C-391M	390 ±20%	0.69	0.55
MC2W1010C-471M	470 ±20%	0.98	0.51
MC2W1010C-561M	560 ±20%	1.10	0.46
MC2W1010C-681M	680 ±20%	1.20	0.42
MC2W1010C-821M	820 ±20%	1.30	0.38
MC2W1010C-102M	1000 ±20%	1.50	0.35

- Inductance tested at 1kHz, 0.25V
- Idc: DC current at which the inductance drops 10%(typ) from its value without current



Features

- High mechanical stability
- High saturation currents
- Custom design on request

Applications

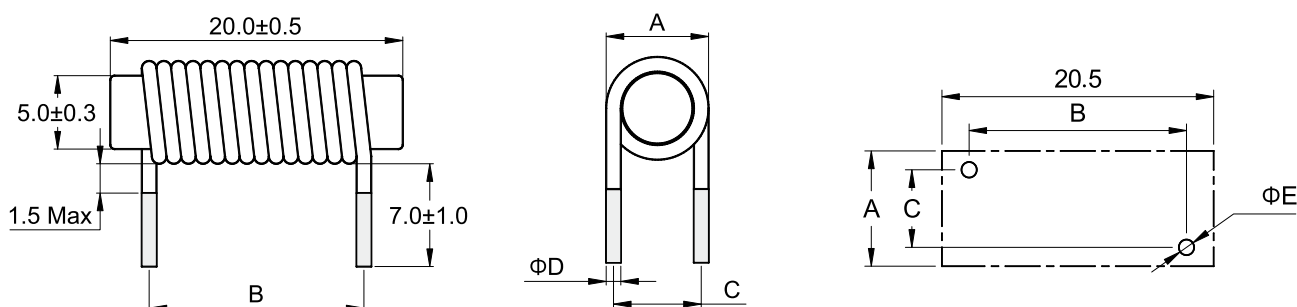
- Motors
- Switching regulators
- Power supplies, Broadband filtering

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



Shape and Dimensions (Unit:mm)



Part Number	A (max)	B (± 1.0)	C (± 0.5)	D (± 0.15)	E (Ref)
RC0520-2R2M	8.50	14.5	6.45	1.40	1.90
RC0520-3R3M	8.00	16.5	6.25	1.20	1.60
RC0520-4R7M	7.50	14.5	5.95	0.90	1.30
RC0520-5R6M	7.50	17.0	5.95	0.90	1.30
RC0520-6R8M	7.20	16.0	5.85	0.80	1.20
RC0520-100M	6.90	18.0	5.75	0.70	1.10
RC0520-150M	6.80	15.0	5.55	0.50	0.90

Electrical Characteristics For RC0520 Series

Part Number	Inductance [uH]	DCR (max) [mΩ]	Rated Current Idc [A]
RC0520-2R2M	2.2 $\pm 20\%$	2.41	15.0
RC0520-3R3M	3.3 $\pm 20\%$	4.21	11.0
RC0520-4R7M	4.7 $\pm 20\%$	8.12	10.5
RC0520-5R6M	5.6 $\pm 20\%$	9.13	9.50
RC0520-6R8M	6.8 $\pm 20\%$	11.9	8.80
RC0520-100M	10 $\pm 20\%$	21.0	6.60
RC0520-150M	15 $\pm 20\%$	41.5	4.70



Features

- DC/DC converter, EMI filter applications
- Low radiation
- Low core loss
- High current capacity
- Horizontal or vertical mount
- Low cost
- Operating temperature -55 to +105 °C
- Current to cause 30°C temperature rise.

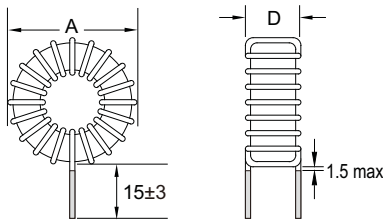
Product Identification:

MTC 5026 V - 101 L

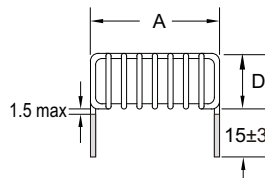
(1) (2) (3) (4) (5)

1. Type: Meisongbei Toroidal Coil
2. Core style: OD=0.5"(12.7mm). "26" is material.
3. Shape: "V. H. F. U" shape
4. Inductance: Example: 101 for 100uH
5. Inductance tolerance: K: $\pm 10\%$; L: $\pm 15\%$; M: $\pm 20\%$

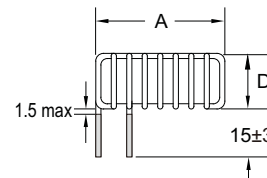
Dimensions & Configurations (Unit:mm)



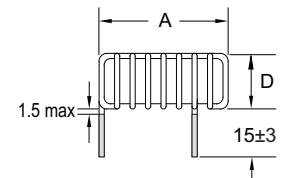
V Shape



H Shape



F Shape



U Shape

Electrical Characteristics For MTC Series

Part Number	L [μ H] $\pm 15\%$	Idc [A]	DCR [Ω] (Max.)	Dim. A (mm)	Dim. D (mm)	Part Number	L [μ H] $\pm 15\%$	Idc [A]	DCR [Ω] (Max.)	Dim. A (mm)	Dim. D (mm)
MTC2026 -9R0L	9	0.3	0.011	8.0	4.5	MTC4426 -430L	43	1.0	0.074	14.5	7.0
MTC2026 -150L	15	0.5	0.070	7.5	4.5	MTC4426 -680L	68	2.0	0.056	15.5	9.0
MTC2026 -200L	20	0.2	0.198	7.5	4.0	MTC4426 -111L	110	0.5	0.250	14.0	6.5
MTC2026 -270L	27	0.3	0.031	8.0	4.5	MTC4426 -141L	140	1.0	0.140	15.0	7.5
MTC3026 -100L	10	2.0	0.017	12.0	7.0	MTC4426 -361L	360	0.5	0.460	14.5	7.5
MTC3026 -120L	12	1.0	0.040	10.5	6.0	MTC5026 -200L	20	3	0.021	17.5	9.0
MTC3026 -320L	32	1.0	0.065	12.0	7.0	MTC5026 -300L	30	2	0.035	17.0	8.5
MTC3026 -370L	37	0.5	0.134	10.0	5.5	MTC5026 -600L	60	3	0.038	18.0	10.0
MTC3026 -141L	140	0.5	0.265	10.0	6.0	MTC5026 -680L	68	1	0.101	16.0	7.5
MTC3726 -8R2L	8.2	2.0	0.017	14.5	7.0	MTC5026 -101L	100	2	0.081	17.0	9.5
MTC3726 -220L	22	2.0	0.030	14.5	7.5	MTC5026 -221L	220	1	0.190	16.5	8.0
MTC3726 -240L	24	1.0	0.055	13.5	6.0	MTC6026 -220L	22	5	0.014	21.5	11.5
MTC3726 -560L	56	0.5	0.181	12.5	5.5	MTC6026 -290L	29	4	0.020	21.0	11.0
MTC3726 -680L	68	1.0	0.095	13.5	6.5	MTC6026 -350L	35	3	0.026	20.5	10.5
MTC3726 -241L	240	0.5	0.360	13.0	6.5	MTC6026 -580L	58	2	0.061	20.0	10.0
MTC4426 -150L	15	2.0	0.023	15.5	7.5	MTC6026 -900L	90	3	0.044	20.5	12.5

Electrical Characteristics For MTC Series

Part Number	L [uH] ±15%	Idc [A]	DCR [Ω] (Max.)	Dim. A (mm)	Dim. D (mm)	Part Number	L [uH] ±15%	Idc [A]	DCR [Ω] (Max.)	Dim. A (mm)	Dim. D (mm)
MTC6026 -111L	110	2	0.069	19.5	10.0	MTC9426 -820L	82	5	0.033	31.0	15.5
MTC6026 -131L	130	1	0.146	19.0	9.0	MTC9426 -101L	100	4	0.042	29.5	13.5
MTC6026 -471L	470	1	0.286	21.0	11.0	MTC9426 -131L	130	3	0.061	29.0	13.0
MTC6826 -250L	25	5	0.016	24.0	10.5	MTC9426 -221L	220	2	0.121	28.5	12.0
MTC6826 -430L	43	3	0.030	23.0	9.5	MTC9426 -301L	300	5	0.064	30.0	15.5
MTC6826 -650L	65	2	0.055	22.0	9.0	MTC9426 -391L	390	4	0.088	29.5	15.0
MTC6826 -111L	110	4	0.042	23.5	11.0	MTC9426 -471L	470	1	0.342	27.5	11.5
MTC6826 -131L	130	3	0.055	23.0	10.5	MTC9426 -501L	500	3	0.124	31.0	14.5
MTC6826 -151L	150	1	0.159	21.5	7.5	MTC9426 -781L	780	2	0.220	30.0	13.5
MTC6826 -231L	230	2	0.108	22.5	9.5	MTC9426 -132L	1300	1	0.585	28.5	12.5
MTC8026 -600L	60	4	0.030	25.0	11.0	MTC10626 -300L	30	10	0.009	36.0	19.5
MTC8026 -820L	82	3	0.042	24.0	10.5	MTC10626 -350L	35	10	0.010	36.0	19.5
MTC8026 -101L	100	5	0.033	25.0	11.5	MTC10626 -560L	56	7	0.020	34.0	18.0
MTC8026 -151L	150	5	0.042	25.0	13.0	MTC10626 -680L	68	7	0.021	34.0	18.0
MTC8026 -221L	220	4	0.059	26.0	13.0	MTC10626 -820L	82	7	0.023	34.0	18.0
MTC8026 -271L	270	3	0.081	27.0	11.5	MTC10626 -101L	100	5	0.036	33.5	17.0
MTC8026 -321L	320	2	0.131	27.0	11.0	MTC10626 -151L	150	4	0.053	32.5	16.5
MTC8026 -431L	430	2	0.150	26.0	11.0	MTC10626 -201L	200	3	0.078	34.0	15.0
MTC8026 -961L	960	1	0.438	26.0	11.0	MTC10626 -301L	300	2	0.150	34.0	15.0
MTC9026 -900L	90	5	0.034	28.0	14.5	MTC10626 -851L	850	2	0.300	35.0	16.5
MTC9026 -141L	140	3	0.082	29.0	13.0	MTC13026 -750L	75	10	0.014	42.0	19.5
MTC9026 -201L	200	2	0.114	28.5	13.0	MTC13026 -131L	130	7	0.031	41.9	18.0
MTC9026 -321L	320	5	0.068	29.0	16.0	MTC13026 -201L	200	5	0.055	39.0	17.0
MTC9026 -451L	450	2	0.174	29.0	14.0	MTC13026 -251L	250	10	0.027	42.5	21.5
MTC9026 -471L	470	1	0.354	26.5	13.0	MTC13026 -471L	470	7	0.064	40.5	19.5
MTC9026 -182L	1800	1	0.680	27.5	14.0	MTC13026 -681L	680	5	0.105	39.0	18.5



Features

- Low cost and high reliability.
- Small and light-weight
- wide range of inductance

Applications

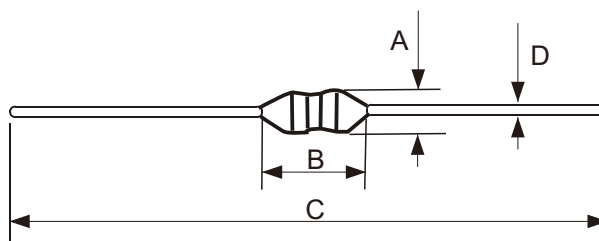
- Televisions, personal computers
- Radios, telephones.
- Others various electronic products

General Specifications

- Storage temp range: -25°C to +85°C
- Operating temp range: -25°C to +85°C



Shape and Dimensions (Unit:mm)



Type	A(max)	B(max)	C±2	D
LGA0307	3.0	7.0	64.0	0.5
LGA0410	4.0	10.5	64.0	0.6
LGA0510	5.0	10.5	64.0	0.6
LGA0512	5.0	12.0	64.0	0.6

- Inductance tolerance: M:±20%, K: ±10%
- Idc: The DC current at which the inductance decrease 10% of its initial value without current or when $\Delta t = 40^\circ\text{C}$, whichever is lower ($T_a = 25^\circ\text{C}$)
- Package: bulk.

Electrical Characteristics For LGA0307 Series

Part Number	Inductance [uH]	Q	S.R.F [MHz]	DCR(max) [Ω]	IDC [mA]	Test Freq [MHz]
LGA0307-R22M	0.22	35	150	0.40	400	25.2
LGA0307-R27M	0.27	35	150	0.43	380	25.2
LGA0307-R33M	0.33	35	150	0.48	370	25.2
LGA0307-R39M	0.39	35	150	0.51	350	25.2
LGA0307-R47M	0.47	35	150	0.56	330	25.2
LGA0307-R56M	0.56	40	150	0.61	320	25.2
LGA0307-R68M	0.68	40	150	0.67	310	25.2
LGA0307-R82M	0.82	40	150	0.74	290	25.2
LGA0307-1R0K	1.00	40	150	0.80	270	25.2
LGA0307-1R2K	1.20	50	144	0.90	260	7.96
LGA0307-1R5K	1.50	50	131	1.0	250	7.96
LGA0307-1R8K	1.80	50	121	1.1	240	7.96
LGA0307-2R2K	2.20	50	110	1.2	230	7.96
LGA0307-2R7K	2.70	50	100	1.3	220	7.96
LGA0307-3R3K	3.30	50	94	1.4	210	7.96
LGA0307-3R9K	3.90	50	65	1.6	200	7.96
LGA0307-4R7K	4.70	50	56	1.7	190	7.96
LGA0307-5R6K	5.60	50	48	1.9	180	7.96
LGA0307-6R8K	6.80	50	37	2.0	175	7.96
LGA0307-8R2K	8.20	50	25	2.2	165	7.96
LGA0307-100K	10.0	50	21	2.5	160	7.96
LGA0307-120K	12.0	50	19	2.5	150	2.52
LGA0307-150K	15.0	50	17	2.8	145	2.52
LGA0307-180K	18.0	50	13	3.1	140	2.52
LGA0307-220K	22.0	50	9.6	3.4	130	2.52
LGA0307-270K	27.0	50	7.2	3.8	125	2.52
LGA0307-330K	33.0	50	6.3	4.1	120	2.52
LGA0307-390K	39.0	50	6.3	4.5	115	2.52
LGA0307-470K	47.0	50	6.3	4.9	110	2.52
LGA0307-560K	56.0	50	6.2	5.3	105	2.52
LGA0307-680K	68.0	50	5.7	5.8	100	2.52
LGA0307-820K	82.0	50	5.3	6.3	95	2.52
LGA0307-101K	100	50	4.8	7.0	90	2.52
LGA0307-121K	120	50	3.8	13	90	0.796
LGA0307-151K	150	50	3.5	15	85	0.796
LGA0307-181K	180	50	3.3	16	80	0.796
LGA0307-221K	220	50	3.0	17	75	0.796
LGA0307-271K	270	50	2.8	19	65	0.796
LGA0307-331K	330	50	2.6	20	60	0.796
LGA0307-391K	390	50	2.4	22	55	0.796
LGA0307-471K	470	50	2.25	24	55	0.796
LGA0307-561K	560	50	2.10	26	50	0.796
LGA0307-681K	680	50	1.95	28	45	0.796
LGA0307-821K	820	50	1.85	30	40	0.796
LGA0307-102K	1000	50	1.40	33	40	0.796

Electrical Characteristics For LGA0410 Series

Part Number	Inductance [uH]	Q	S.R.F [MHz]	DCR(max) [Ω]	IDC [mA]	Test Freq [MHz]
LGA0410-R22M	0.22	45	300	0.10	1400	25.2
LGA0410-R27M	0.27	45	270	0.11	1320	25.2
LGA0410-R33M	0.33	45	250	0.12	1280	25.2
LGA0410-R39M	0.39	45	230	0.13	1200	25.2
LGA0410-R47M	0.47	45	220	0.14	1150	25.2
LGA0410-R56M	0.56	45	200	0.15	1100	25.2
LGA0410-R68M	0.68	45	190	0.16	1030	25.2
LGA0410-R82M	0.82	45	172	0.17	980	25.2
LGA0410-1R0K	1.00	45	157	0.19	920	25.2
LGA0410-1R2K	1.20	50	144	0.21	880	7.96
LGA0410-1R5K	1.50	50	131	0.23	830	7.96
LGA0410-1R8K	1.80	55	121	0.25	790	7.96
LGA0410-2R2K	2.20	55	110	0.28	750	7.96
LGA0410-2R7K	2.70	60	100	0.30	720	7.96
LGA0410-3R3K	3.30	65	94	0.34	670	7.96
LGA0410-3R9K	3.90	65	55	0.37	640	7.96
LGA0410-4R7K	4.70	70	56	0.39	620	7.96
LGA0410-5R6K	5.60	70	48	0.43	590	7.96
LGA0410-6R8K	6.80	75	37	0.48	550	7.96
LGA0410-8R2K	8.20	80	25	0.52	530	7.96
LGA0410-100K	10.0	65	21	0.58	500	7.96
LGA0410-120K	12.0	50	19	1.63	480	2.52
LGA0410-150K	15.0	50	17	0.72	460	2.52
LGA0410-180K	18.0	50	13	0.77	430	2.52
LGA0410-220K	22.0	50	9.6	0.84	410	2.52
LGA0410-270K	27.0	55	7.2	0.94	390	2.52
LGA0410-330K	33.0	55	6.6	1.03	370	2.52
LGA0410-390K	39.0	50	6.6	1.12	350	2.52
LGA0410-470K	47.0	45	6.3	1.22	340	2.52
LGA0410-560K	56.0	40	6.2	1.34	320	2.52
LGA0410-680K	68.0	40	5.7	1.47	305	2.52
LGA0410-820K	82.0	35	5.3	1.62	290	2.52
LGA0410-101K	100	30	4.8	1.80	275	2.52
LGA0410-121K	120	55	3.8	3.70	185	0.796
LGA0410-151K	150	45	3.5	4.20	175	0.796
LGA0410-181K	180	50	3.3	4.60	165	0.796
LGA0410-221K	220	55	3.0	5.10	155	0.796
LGA0410-271K	270	65	2.8	5.80	145	0.796
LGA0410-331K	330	65	2.6	6.40	137	0.796
LGA0410-391K	390	65	2.4	7.00	133	0.796
LGA0410-471K	470	60	2.25	7.70	126	0.796
LGA0410-561K	560	60	2.10	8.50	120	0.796
LGA0410-681K	680	55	1.95	9.40	113	0.796
LGA0410-821K	820	55	1.85	10.50	105	0.796
LGA0410-102K	1000	50	1.40	14.00	100	0.796

► Electrical Characteristics For LGA0510 Series

Part Number	Inductance [uH]	Q	S.R.F [MHz]	DCR(max) [Ω]	IDC [mA]	Test Freq [MHz]
LGA0510-471K	470	60	1.9	7.70	126	0.796
LGA0510-561K	560	50	1.8	8.50	120	0.796
LGA0510-681K	680	55	1.5	9.00	113	0.796
LGA0510-821K	820	45	1.2	10.5	105	0.796
LGA0510-102K	1000	45	1.0	14.0	100	0.796
LGA0510-122K	1200	40	0.95	16.9	95	0.252
LGA0510-152K	1500	40	0.90	21.6	90	0.252
LGA0510-182K	1800	40	0.85	24.0	85	0.252
LGA0510-222K	2200	40	0.80	34.7	80	0.252
LGA0510-272K	2700	40	0.75	40.0	75	0.252
LGA0510-332K	3300	40	0.70	59.5	62	0.252
LGA0510-392K	3900	40	0.65	66.0	59	0.252
LGA0510-472K	4700	40	0.60	74.0	55	0.252
LGA0510-562K	5600	30	0.50	80.0	40	0.252
LGA0510-682K	6800	30	0.45	85.0	35	0.252
LGA0510-822K	8200	30	0.40	95.0	30	0.252
LGA0510-103K	10000	20	0.35	105.0	25	0.252

Electrical Characteristics For LGA0512 Series

Part Number	Inductance [uH]	Q	S.R.F [MHz]	DCR(max) [Ω]	IDC [mA]	Test Freq [Hz]
LGA0512-220K	22	30	8	0.4	550	2.52M
LGA0512-101K	100	10	3.5	0.5	300	2.52M
LGA0512-221K	220	10	2.6	2.1	160	0.796M
LGA0512-331K	330	30	2.2	2.5	130	0.796M
LGA0512-391K	390	30	2	2.8	125	0.796M
LGA0512-471K	470	30	1.9	3.0	120	1k/0.796M
LGA0512-561K	560	30	1.8	4.5	115	0.796M
LGA0512-681K	680	30	1.5	4.6	110	0.796M
LGA0512-821K	820	30	1.2	5.0	105	0.796M
LGA0512-102K	1000	50	1	5.0	100	1k/0.252M
LGA0512-122K	1200	60	0.95	14.5	90	0.252M
LGA0512-152K	1500	60	0.9	16.5	85	0.252M
LGA0512-182K	1800	60	0.9	19.0	80	0.252M
LGA0512-222K	2200	60	0.8	27.5	70	1k/0.252M
LGA0512-272K	2700	60	0.75	40	65	0.252M
LGA0512-332K	3300	50	0.7	50	60	0.252M
LGA0512-392K	3900	50	0.65	53	55	0.252M
LGA0512-472K	4700	50	0.6	60	50	0.252M
LGA0512-562K	5600	50	0.5	64	45	1k/0.252M
LGA0512-682K	6800	40	0.45	73	40	0.252M
LGA0512-822K	8200	30	0.4	80	30	0.252M
LGA0512-103K	10000	30	0.35	132	25	79.6k

Power Line Chokes - UT2413 Series

Current-compensated Frame core double chokes



Features

- High inductance with low DCR
- Low height (13.5mm)
- High pulse-handling capability
- Very small stray inductance / rated current ratio

General Specifications

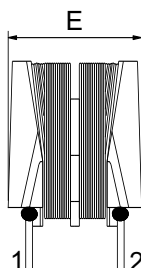
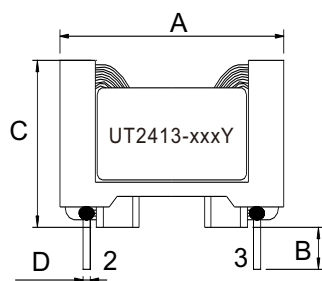
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +125°C

Application

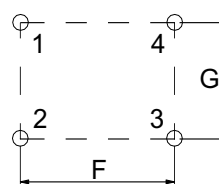
- Suppression of common mode and differential mode interferences
- Electronics ballasts for lamps
- Switch-mode power applications



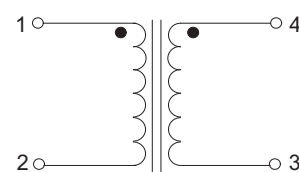
► Dimensions & Configurations (Unit:mm)



Recommended Layout



Schematic



Type	A	B	C	D	E	F	G
UT2413	24.5 max	3.5±0.5	13.5 max	0.7 ± 0.1	14.5 max	18.75 ± 0.5	10.0 ± 0.5

► Electrical Characteristics For UT2413 Series

Part Number	Inductance [mH] (+50%-30%)	Lstray Typ. [uH]	DCR(Typ.) [mΩ]	Rated Current [A] (Max.)
UT2413-602Y	6	120	220	2.40
UT2413-103Y	10	204	291	1.60
UT2413-153Y	15	291	432	1.30
UT2413-273Y	27	520	771	0.90
UT2413-393Y	39	761	1100	0.80
UT2413-473Y	47	924	1261	0.70
UT2413-683Y	68	1346	1974	0.60
UT2413-104Y	100	1937	2931	0.45

- Inductance tested at 10kHz, 0.0Adc
- Rated voltage: 250VAC (50/60Hz)
- Hi-pot: 2000VAC

Power Line Chokes - UT2624 Series

Current-compensated Frame core double chokes



Features

- High inductance with low DCR
- Low height (14mm)
- High pulse-handling capability
- Very small stray inductance / rated current ratio

General Specifications

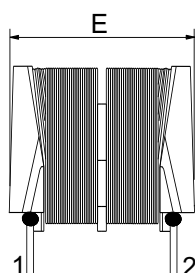
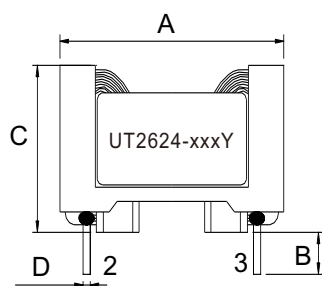
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +125°C

Application

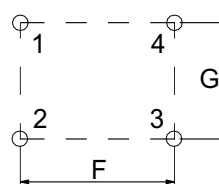
- Suppression of common mode and differential mode interferences
- Electronics ballasts for lamps
- Switch-mode power applications



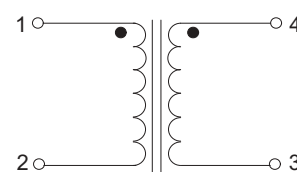
► Dimensions & Configurations (Unit:mm)



Recommended Layout



Schematic



Type	A	B	C	D	E	F	G
UT2624	26.5 max	3.5±0.5	14 max	0.7 ± 0.1	24.8 max	22.5 ± 0.5	20 ± 0.5

► Electrical Characteristics For UT2624 Series

Part Number	Inductance [mH] (+50%-30%)	Lstray Typ. [uH]	DCR(Typ.) [mΩ]	Rated Current [A] (Max.)
UT2624-103Y	10	210	188	2.30
UT2624-153Y	15	310	279	1.90
UT2624-273Y	27	550	440	1.40
UT2624-393Y	39	800	696	1.20
UT2624-473Y	47	970	804	1.10
UT2624-683Y	68	1440	1100	0.90
UT2624-104Y	100	2100	1810	0.70

- Inductance tested at 10kHz, 0.0Adc
- Rated voltage: 250VAC (50/60Hz)
- Hi-pot: 2000VAC

Power Line Chokes - UT2915V Series

Current-compensated Frame core double chokes



Features

- High inductance with low DCR
- Vertical version
- High pulse-handling capability
- Very small stray inductance / rated current ratio

General Specifications

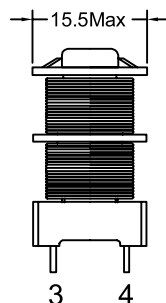
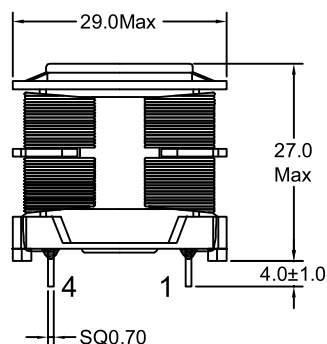
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +125°C

Application

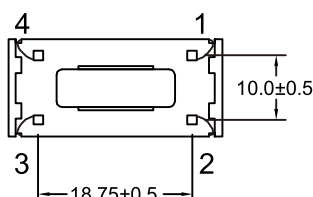
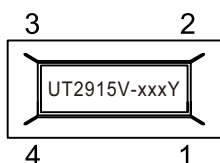
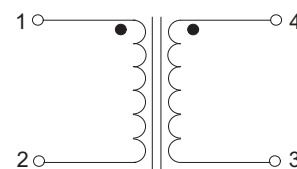
- Suppression of common mode and differential mode interferences
- Electronics ballasts for lamps
- Switch-mode power applications



► Dimensions & Configurations (Unit:mm)



Schematic



► Electrical Characteristics For UT2915V Series

Part Number	Inductance [mH] (+50%-30%)	Lstray Typ. [uH]	DCR(Typ.) [mΩ]	Rated Current [A] (Max.)
UT2915V-103Y	10	210	188	2.30
UT2915V-153Y	15	310	279	1.90
UT2915V-273Y	27	550	440	1.40
UT2915V-393Y	39	800	696	1.20
UT2915V-473Y	47	970	804	1.10
UT2915V-683Y	68	1440	1100	0.90
UT2915V-104Y	100	2100	1810	0.70

- Inductance tested at 10kHz, 0.0Adc
- Rated voltage: 250VAC (50/60Hz)
- Hi-pot: 2000VAC

Common Mode Choke (Flat Wire Line Filter) - SQ1212 Series



Features

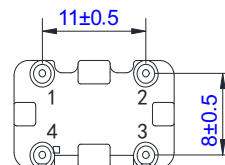
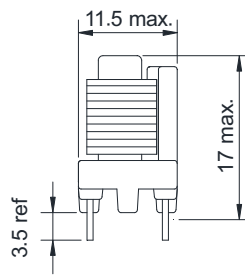
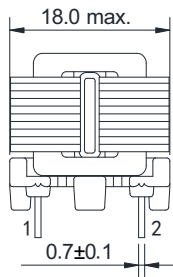
- Power Range: 20-60W
- Vertical and Horizontal mount
- Flat wire winding on closed magnetic path core
- Smaller winding form factor
- Flat wire dramatically reduces parasitic capacitance
- High magnetic saturation characteristics
- High attenuation to the normal mode noise
- Automatic winding for improved reliability

Applications

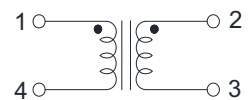
- Rated Voltage: AC/DC 250V
- Test Condition: 1KHz 0.25V
- Operating Temperature: -25°C to +125°C
- Storage Temperature: -25°C to +100°C
- Withstanding Voltage: 1.5KVAC 60SEC.



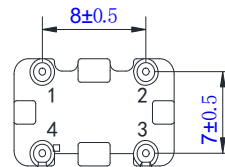
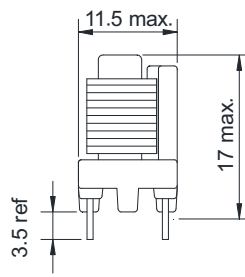
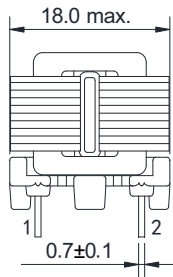
Dimensions & Configurations (Unit:mm)



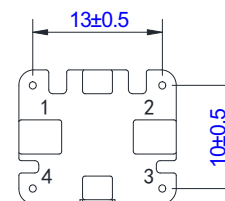
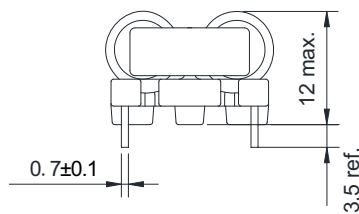
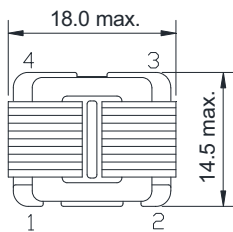
V : Vertical Type



Suggest PCB hole: $\geq \Phi 1.2\text{mm}$



V1 : Vertical Type



H : Horizontal Type

Electrical Characteristics For SQ1212V / SQ1212V1 / SQ1212H Series

Part Number			Inductance [mH] (Min.)	Wire (mm)	DCR [mΩ] (Max.)	Rated Current [A]
SQ1212V-802U	SQ1212V1-802U	SQ1212H-802U	8	0.15*1.0	150	2.2
SQ1212V-103U	SQ1212V1-103U	SQ1212H-103U	10	0.13*1.0	180	2.0
SQ1212V-153U	SQ1212V1-153U	SQ1212H-153U	15	0.10*1.0	200	1.5
SQ1212V-203U	SQ1212V1-203U	SQ1212H-203U	20	0.10*1.0	220	1.5
SQ1212V-253U	SQ1212V1-253U	SQ1212H-253U	25	0.10*1.0	240	1.4

Common Mode Choke (Flat Wire Line Filter) - SQ1515 Series



Features

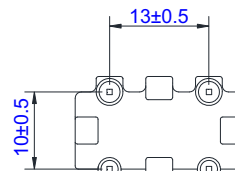
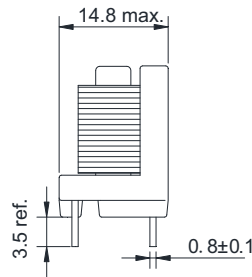
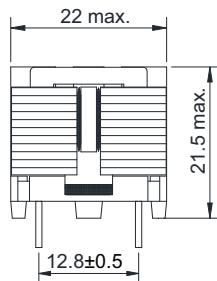
- Power Range: 60-150W
- Vertical and Horizontal mount
- Flat wire winding on closed magnetic path core
- Smaller winding form factor
- Flat wire dramatically reduces parasitic capacitance
- High magnetic saturation characteristics
- High attenuation to the normal mode noise
- Automatic winding for improved reliability

Applications

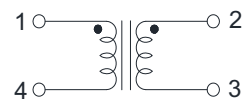
- Rated Voltage: AC/DC 250V
- Test Condition: 1KHz 0.25V
- Operating Temperature: -25°C to +125°C
- Storage Temperature: -25°C to +100°C
- Withstanding Voltage: 1.5KVAC 60SEC.



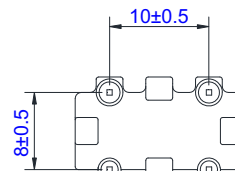
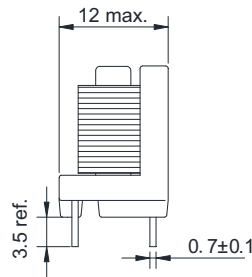
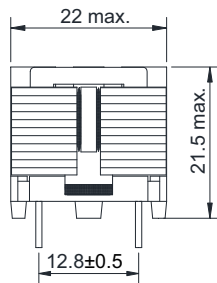
Dimensions & Configurations (Unit:mm)



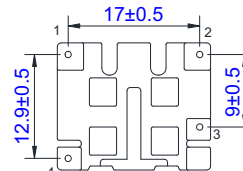
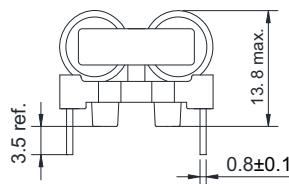
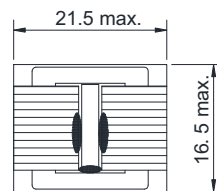
V : Vertical Type



Suggest PCB hole: $\geq \Phi 1.4\text{mm}$



V1 : Vertical Type



H : Horizontal Type

Electrical Characteristics For SQ1515V / SQ1515V1 / SQ1515H Series

Part Number			Inductance [mH] (Min.)	Wire (mm)	DCR [mΩ] (Max.)	Rated Current [A]
SQ1515V-302U	SQ1515V1-302U	SQ1515H-302U	3	0.3*1.5	70	4.5
SQ1515V-502U	SQ1515V1-502U	SQ1515H-502U	5	0.25*1.5	80	3.6
SQ1515V-103U	SQ1515V1-103U	SQ1515H-103U	10	0.2*1.5	80	3.0
SQ1515V-153U	SQ1515V1-153U	SQ1515H-153U	15	0.15*1.0	200	2.2
SQ1515V-183U	SQ1515V1-183U	SQ1515H-183U	18	0.15*1.0	200	1.8
SQ1515V-303U	SQ1515V1-303U	SQ1515H-303U	30	0.10*1.0	350	1.2

Common Mode Choke (Flat Wire Line Filter) - SQ1918 Series



Features

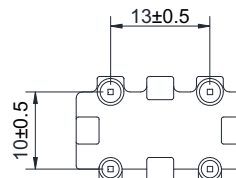
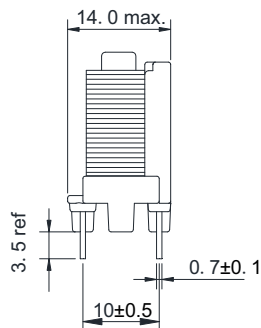
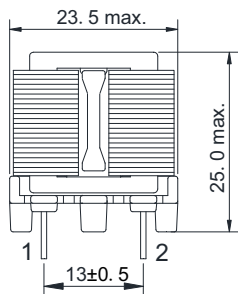
- Power Range: 120-200W
- Vertical and Horizontal mount
- Flat wire winding on closed magnetic path core
- Smaller winding form factor
- Flat wire dramatically reduces parasitic capacitance
- High magnetic saturation characteristics
- High attenuation to the normal mode noise
- Automatic winding for improved reliability

Applications

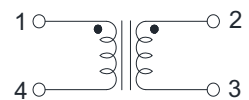
- Rated Voltage: AC/DC 250V
- Test Condition: 1KHz 0.25V
- Operating Temperature: -25°C to +125°C
- Storage Temperature: -25°C to +100°C
- Withstanding Voltage: 1.5KVAC 60SEC.



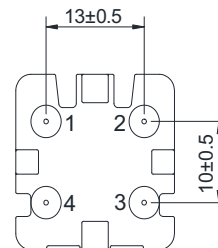
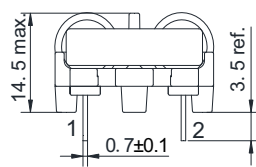
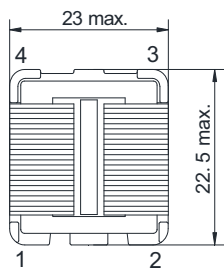
Dimensions & Configurations (Unit:mm)



V : Vertical Type



Suggest PCB hole: $\geq \Phi 1.2\text{mm}$



H : Horizontal Type

Electrical Characteristics For SQ1918V / SQ1918H Series

Part Number		Inductance [mH] (Min.)	Wire (mm)	DCR [mΩ] (Max.)	Rated Current [A]
SQ1918V-202U	SQ1918H-202U	2	0.4*1.5	50	7.2
SQ1918V-502U	SQ1918H-502U	5	0.3*1.5	100	5.5
SQ1918V-602U	SQ1918H-602U	6	0.25*1.5	100	4.5
SQ1918V-103U	SQ1918H-103U	10	0.2*1.5	145	3.6
SQ1918V-153U	SQ1918H-153U	15	0.2*1.5	150	3.0
SQ1918V-203U	SQ1918H-203U	20	0.15*1.0	260	1.8
SQ1918V-253U	SQ1918H-253U	25	0.13*1.0	340	1.5
SQ1918V-303U	SQ1918H-303U	30	0.13*1.0	350	1.5

Common Mode Choke (Flat Wire Line Filter) - SQ2418 Series



Features

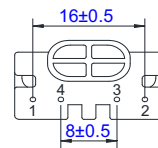
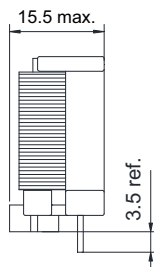
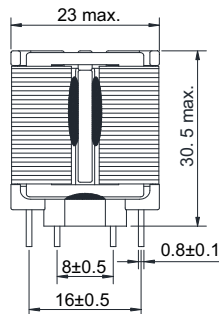
- Power Range: 300-500W
- Vertical and Horizontal mount
- Flat wire winding on closed magnetic path core
- Smaller winding form factor
- Flat wire dramatically reduces parasitic capacitance
- High magnetic saturation characteristics
- High attenuation to the normal mode noise
- Automatic winding for improved reliability

Applications

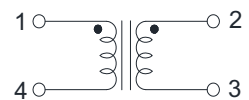
- Rated Voltage: AC/DC 250V
- Test Condition: 1KHz 0.25V
- Operating Temperature: -25°C to +125°C
- Storage Temperature: -25°C to +100°C
- Withstanding Voltage: 1.5KVAC 60SEC.



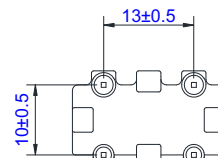
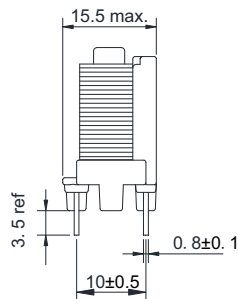
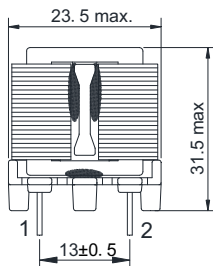
Dimensions & Configurations (Unit:mm)



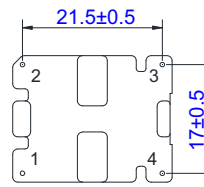
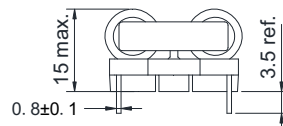
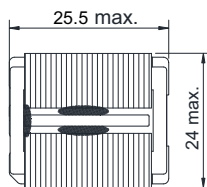
V : Vertical Type



Suggest PCB hole: $\geq \Phi 1.4\text{mm}$



V1 : Vertical Type



H : Horizontal Type

Electrical Characteristics For SQ2418V / SQ2418V1 / SQ2418H Series

Part Number			Inductance [mH] (Min.)	Wire (mm)	DCR [mΩ] (Max.)	Rated Current [A]
SQ2418V-202U	SQ2418V1-202U	SQ2418H-202U	2	0.5*1.5	50	9.0
SQ2418V-502U	SQ2418V1-502U	SQ2418H-502U	5	0.4*1.5	75	7.0
SQ2418V-103U	SQ2418V1-103U	SQ2418H-103U	10	0.3*1.5	100	5.5
SQ2418V-123U	SQ2418V1-123U	SQ2418H-123U	12	0.25*1.5	100	4.5
SQ2418V-153U	SQ2418V1-153U	SQ2418H-153U	15	0.2*1.5	100	3.0



Features

- Very compact design
- Flammability corresponding to UL94V-0
- Custom designs are available

Applications

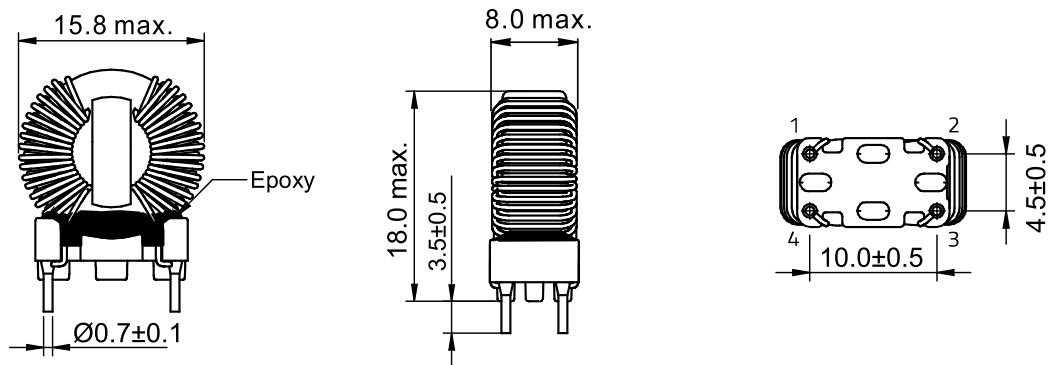
- Power electronics
- Power line in and output filter
- Suppression of common mode noise

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

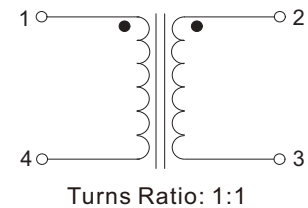
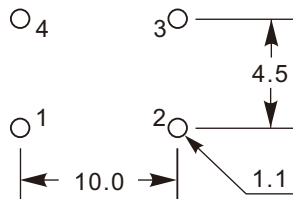


Dimensions & Configurations (Unit:mm)



Recommended Hole Pattern:[mm]

Schematic



Electrical Specifications @ 25°C

Part Number	Inductance [mH]	Rated Current [A]	DCR(max) [mΩ]
CTR1205-102N	1 $\pm$ 30%	2.0	45
CTR1205-402N	4 $\pm$ 30%	1.5	140
CTR1205-502N	5 $\pm$ 30%	1.0	200
CTR1205-103N	10 $\pm$ 30%	0.7	350
CTR1205-203N	20 $\pm$ 30%	0.5	1000
CTR1205-393N	39 $\pm$ 30%	0.3	3000

- Inductance is per winding tested at 10kHz, 0.1V
- Hi-pot: AC1500V/1mA/2S (N1-N2)
- Rated Voltage: 250VAC max



Features

- Very compact design
- Flammability corresponding to UL94V-0
- Custom designs are available

Applications

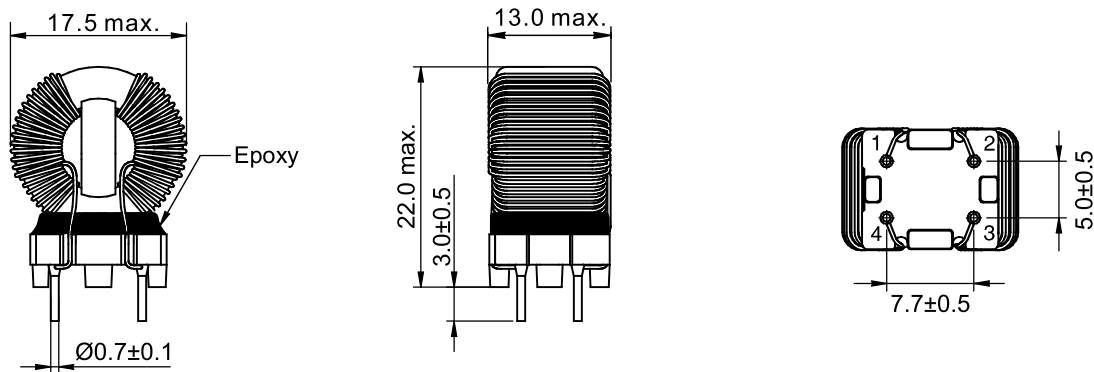
- Power electronics
- Power line in and output filter
- Suppression of common mode noise

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

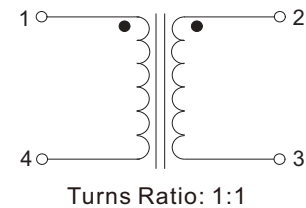
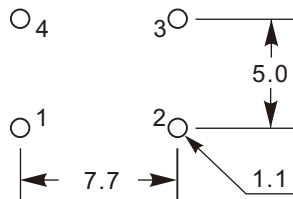


Dimensions & Configurations (Unit:mm)



Recommended Hole Pattern:[mm]

Schematic



Electrical Specifications @ 25°C

Part Number	Inductance [mH]	Rated Current [A]	DCR(max) [mΩ]
CTR1409-102N	1.0±30%	3.0	35
CTR1409-222N	2.2±30%	2.0	70
CTR1409-332N	3.3±30%	1.5	120
CTR1409-103N	10.0±30%	1.0	360
CTR1409-203N	20.0±30%	0.5	540

- Inductance is per winding tested at 10kHz,0.1V
- Hi-pot:AC1500V/1mA/2S (N1-N2)
- Rated Voltage: 250VAC max



Features

- Very compact design
- Flammability corresponding to UL94V-0
- Custom designs are available

Applications

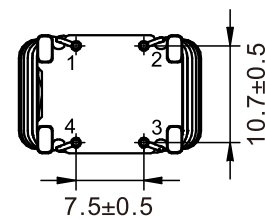
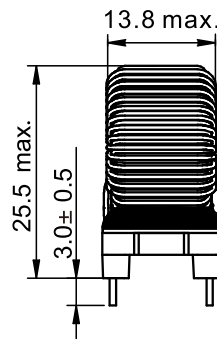
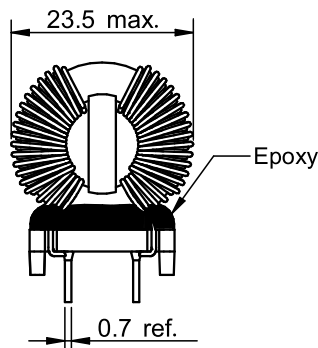
- Power electronics
- Power line in and output filter
- Suppression of common mode noise

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

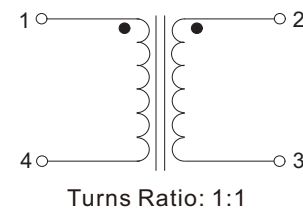
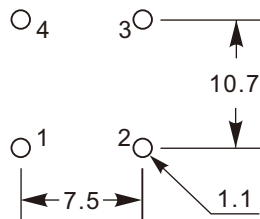


Dimensions & Configurations (Unit:mm)



Recommended Hole Pattern:[mm]

Schematic



Electrical Specifications @ 25°C

Part Number	Inductance [mH]	Rated Current [A]	DCR(max) [mΩ]
CTR2010-102N	1.0±30%	6.0	13
CTR2010-222N	2.2±30%	4.0	30
CTR2010-332N	3.3±30%	2.5	60
CTR2010-502N	5.0±30%	2.5	95
CTR2010-103N	10.0±30%	2.0	125
CTR2010-203N	20.0±30%	1.5	270

- Inductance is per winding tested at 10kHz, 0.1V
- Hi-pot: AC1500V/1mA/2S (N1-N2)
- Rated Voltage: 250VAC max



Features

- Very compact design
- Flammability corresponding to UL94V-0
- Custom designs are available

Applications

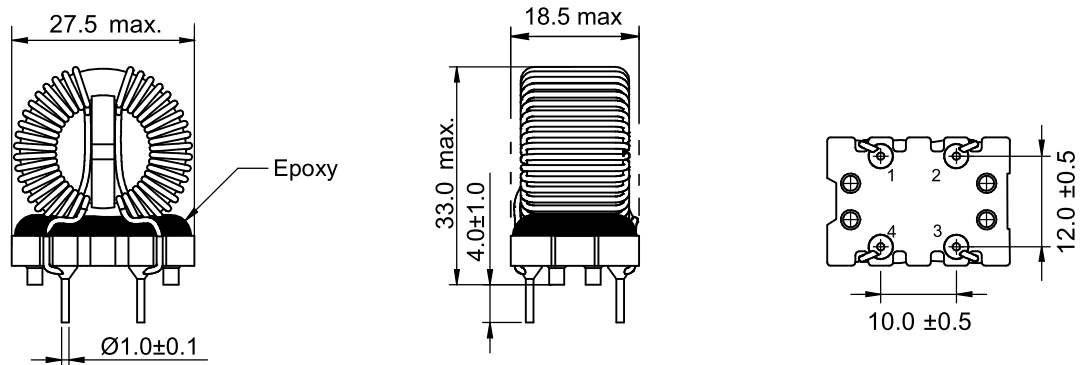
- Power electronics
- Power line in and output filter
- Suppression of common mode noise

General Specifications

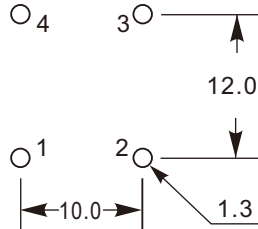
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



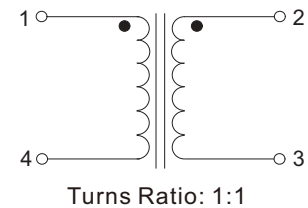
Dimensions & Configurations (Unit:mm)



Recommended Hole Pattern:[mm]



Schematic



Electrical Specifications @ 25°C

Part Number	Inductance [mH]	Rated Current [A]	DCR(max) [mΩ]
CTR2214-102N	1.0±30%	7.5	10
CTR2214-222N	2.2±30%	6.0	20
CTR2214-332N	3.3±30%	4.0	35
CTR2214-502N	5.0±30%	4.0	50
CTR2214-702N	7.0±30%	3.5	80
CTR2214-103N	10.0±30%	3.0	105
CTR2214-203N	20.0±30%	2.0	220

- Inductance is per winding tested at 10kHz,0.1V
- Hi-pot:AC1500V/1mA/2S (N1-N2)
- Rated Voltage: 250VAC max



Features

- Very compact design
- Flammability corresponding to UL94V-0
- Custom designs are available

Applications

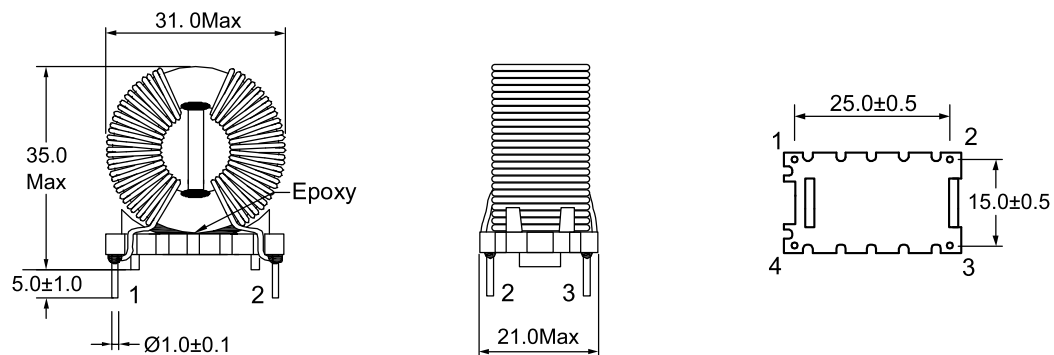
- Power electronics
- Power line in and output filter
- Suppression of common mode noise

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

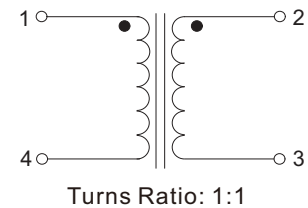
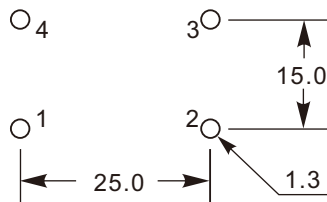


Dimensions & Configurations (Unit:mm)



Recommended Hole Pattern:[mm]

Schematic



Electrical Specifications @ 25°C

Part Number	Inductance [mH]	Rated Current [A]	DCR(max) [mΩ]
CTR2620-102N	1.0±30%	12.0	9
CTR2620-222N	2.2±30%	8.0	14
CTR2620-332N	3.3±30%	6.0	25
CTR2620-502N	5.0±30%	6.0	45
CTR2620-103N	10.0±30%	4.5	70
CTR2620-203N	20.0±30%	3.0	160
CTR2620-333N	33.0±30%	3.0	210

- Inductance is per winding tested at 10kHz, 0.1V
- Hi-pot: AC1500V/1mA/2S (N1-N2)
- Rated Voltage: 250VAC max



Features

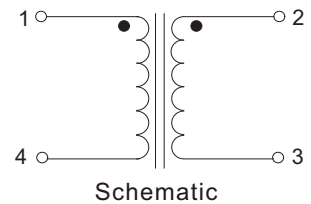
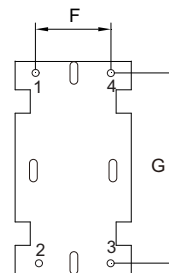
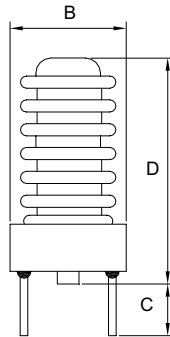
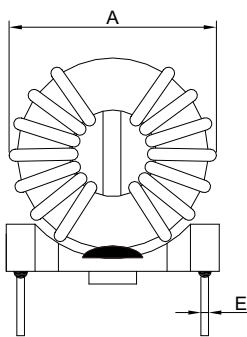
- Core material: Nickel-Zinc Ferrite
- Low cost
- Dielectric strength: 1500 Vrms
- Fixed pin spacing allow easy PCB insertion
- Operating temperature: -45 to +125°C
- Custom Designs Available

Application

- Power electronics
- Power line in- and output filter
- Optimized for burst signals



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F	G
CTRN1205	16.0 Max.	7.5 Max.	3.5±0.5	18.0 Max.	0.7 Ref.	4.5±0.5	10.0±0.5

► Electrical Characteristics For CTRN1205 Series

Part Number	Inductance [uH] (±30%)	Rated Current (max) [A]	DCR(max) [mΩ]
CTRN1205-140N	14	4.0	15
CTRN1205-300N	30	3.0	26
CTRN1205-470N	47	2.0	40
CTRN1205-101N	100	1.5	80

- Inductance tested at 100kHz 20°C
- Idc: Current to cause 70°C temperature rise.
- Hi-pot: 1500VAC
- Rated voltage: 250VAC (50/60Hz)



Features

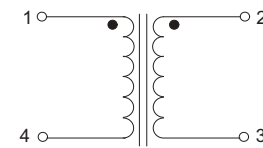
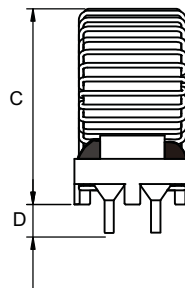
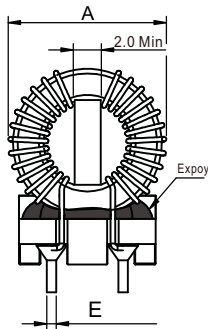
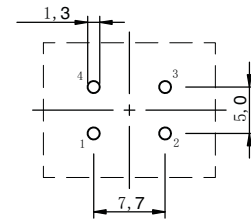
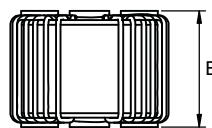
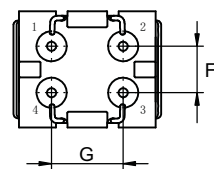
- Core material: Nickel-Zinc Ferrite
- Low cost
- Dielectric strength: 1500 Vrms
- Fixed pin spacing allow easy PCB insertion
- Operating temperature: -45 to +125°C
- Custom Designs Available

Application

- Power electronics
- Power line in- and output filter
- Optimized for burst signals



► Dimensions & Configurations (Unit:mm)



Schematic

Type	A	B	C	D	E	F	G
CTRN1409	18.5 Max.	14.5 Max.	22.0 Max.	3.5±0.5	0.7 Ref	5.0±0.5	7.7±0.5

► Electrical Characteristics For CTRN1409 Series

Part Number	Inductance [uH] (±30%)	Rated Current (max) [A]	DCR(max) [mΩ]
CTRN1409-160N	16	7.5	5.5
CTRN1409-320N	32	5.5	11.0
CTRN1409-420N	42	6.5	8.9
CTRN1409-650N	65	5.0	14.3
CTRN1409-111N	110	3.0	34.1

- Inductance tested at 100kHz 20°C
- Idc: Current to cause 70°C temperature rise.
- Hi-pot: 1500VAC/ 50Hz/ 5mA/ 2sec.
- Rated voltage: 250VAC (50/60Hz)



Features

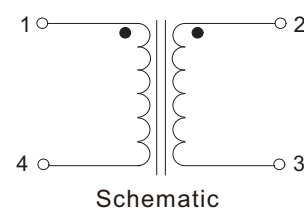
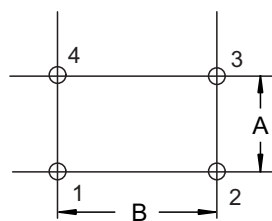
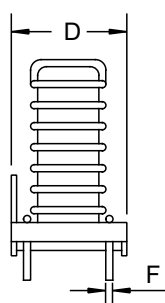
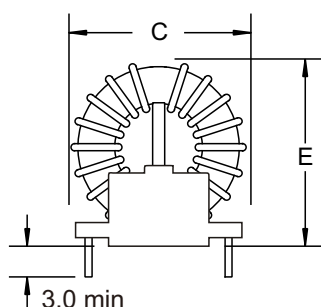
- Low cost
- Dielectric strength: 1500 Vrms
- Fixed pin spacing allow easy PCB insertion
- Operating temperature: -55 to +105°C
- Custom Designs Available

Application

- DC/DC, AC/DC line noise suppression
- Automotive Systems
- Communication System



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F
CMT1020	10.2±0.3	20.3±0.3	34.3 max	17.78 max	31.52 max	1.20

► Electrical Characteristics For CMT1020 Series

Part Number	Inductance (min) [mH]	Rated Current [A]	DCR(max) [Ω]	Leakage Inductance [uH] Typical
CMT1020-1R0Y	1	15	0.010	12
CMT1020-2R0Y	2	9	0.020	25
CMT1020-3R0Y	3	6	0.030	35
CMT1020-4R0Y	4	3.5	0.040	45
CMT1020-8R0Y	8	2.5	0.120	90
CMT1020-100Y	10	2.2	0.240	130
CMT1020-160Y	16	1.5	0.320	180

1. Inductance is per winding, tested at 10KHz 0.1V
2. Leakage inductance is measured from pin 1 to pin 4 with pins 2 and 3 shorted
3. Electrical specifications at 25°C



Features

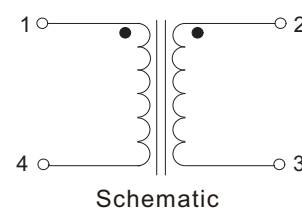
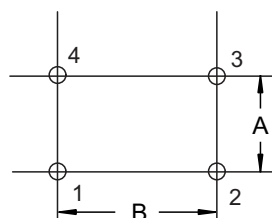
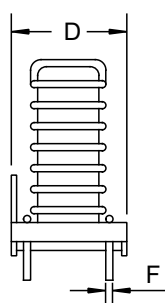
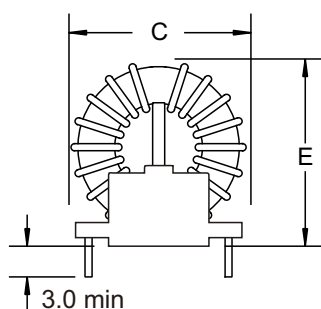
- Low cost
- Dielectric strength: 1500 Vrms
- Fixed pin spacing allow easy PCB insertion
- Operating temperature: -55 to +105°C
- Custom Designs Available

Application

- DC/DC, AC/DC line noise suppression
- Automotive Systems
- Communication System



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F
CMT1522	15.2±0.3	22.9±0.3	36.8 max	22.9 max	33.5 max	1.20

► Electrical Characteristics For CMT1522 Series

Part Number	Inductance (min) [mH]	Rated Current [A]	DCR(max) [Ω]	Leakage Inductance [uH] Typical
CMT1522-1R2Y	1.2	15	0.010	12
CMT1522-2R0Y	2	8.7	0.020	25
CMT1522-3R0Y	3	6.5	0.054	35
CMT1522-4R0Y	4	5.4	0.105	45
CMT1522-8R0Y	8	3.5	0.143	85
CMT1522-100Y	10	3.0	0.350	130
CMT1522-160Y	16	2.2	0.400	180

1. Inductance is per winding, tested at 10KHz 0.1V
2. Leakage inductance is measured from pin 1 to pin 4 with pins 2 and 3 shorted
3. Electrical specifications at 25°C



Features

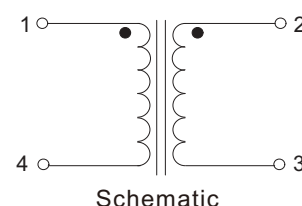
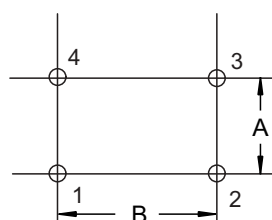
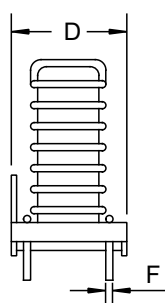
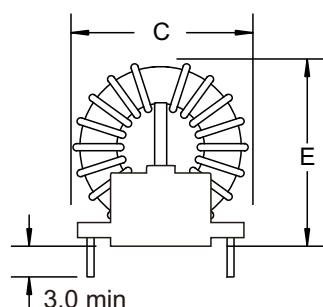
- Low cost
- Dielectric strength: 1500 Vrms
- Fixed pin spacing allow easy PCB insertion
- Operating temperature: -55 to +105°C
- Custom Designs Available

Application

- DC/DC, AC/DC line noise suppression
- Automotive Systems
- Communication System



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F
CMT1730	17.8±0.3	30.5±0.3	44.5 max	25.4 max	44.7 max	1.20

► Electrical Characteristics For CMT1522 Series

Part Number	Inductance (min) [mH]	Rated Current [A]	DCR(max) [Ω]	Leakage Inductance [uH] Typical
CMT1730-3R0Y	3	15	0.009	20
CMT1730-5R0Y	5	12	0.035	50
CMT1730-120Y	12	6.8	0.098	95
CMT1730-150Y	15	4.2	0.132	150
CMT1730-220Y	22	3.2	0.352	280
CMT1730-330Y	33	2	0.730	300
CMT1730-560Y	56	1.8	1.000	550

1. Inductance is per winding, tested at 10KHz 0.1V
2. Leakage inductance is measured from pin 1 to pin 4 with pins 2 and 3 shorted
3. Electrical specifications at 25°C



Features

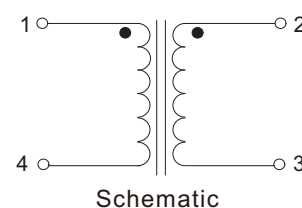
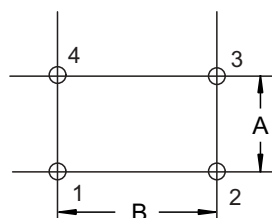
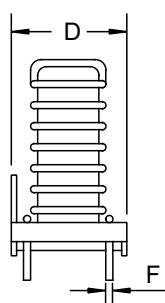
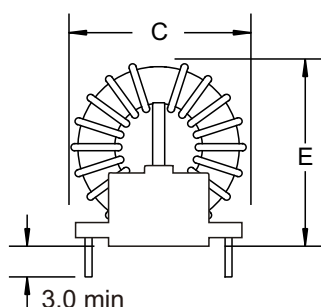
- Low cost
- Dielectric strength: 1500 Vrms
- Fixed pin spacing allow easy PCB insertion
- Operating temperature: -55 to +105°C
- Custom Designs Available

Application

- DC/DC, AC/DC line noise suppression
- Automotive Systems
- Communication System



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F
CMT2238	22.9±0.3	38.1±0.3	58 max	28.7 max	58.00	1.30

► Electrical Characteristics For CMT2238 Series

Part Number	Inductance (min) [mH]	Rated Current [A]	DCR(max) [Ω]	Leakage Inductance [uH] Typical
CMT2238-6R0Y	6	18	0.028	100
CMT2238-100Y	10	15	0.033	120
CMT2238-150Y	15	9	0.060	180
CMT2238-220Y	22	6	0.117	180
CMT2238-330Y	33	4.2	0.124	450
CMT2238-720Y	72	2.6	0.500	600
CMT2238-121Y	120	1.5	1.150	900

1. Inductance is per winding, tested at 10KHz 0.1V
2. Leakage inductance is measured from pin 1 to pin 4 with pins 2 and 3 shorted
3. Electrical specifications at 25°C



Features

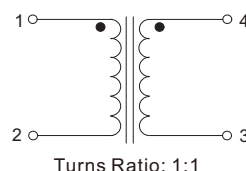
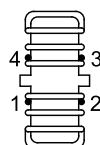
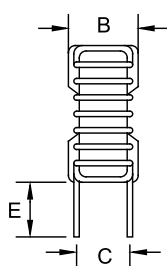
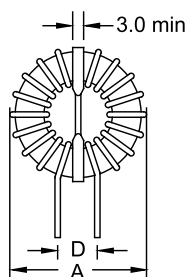
- Reduce conductive EMI emission
- High impedance at low frequency
- Coil wound on UL 94V-0 rated plastic cased ferrite core
- Dielectric strength 3750Vrms
- Cross to Miller / Bourns 7100 series
- Custom designs available

General Specifications

- Storage temp range: -40°C to +105°C
- Operating temp range: -55°C to +105°C
- Moisture Sensitivity Level(MSL): 1



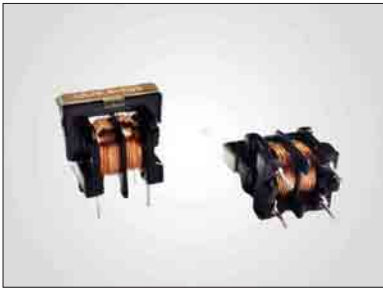
Dimensions & Configurations (Unit:mm)



Type	A (Max.)	B (Max.)	C (Nom.)	D (Nom.)	E (Min.)
CMC1511	15.25	11.43	10.16	5.08	12.7
CMC2014	20.32	13.97	12.70	7.62	12.7
CMC3020	30.48	20.32	17.78	10.16	12.7

Electrical Characteristics For CMC1511/2041/3020 Series

Part Number	Inductance [mH] (Min) @1KHz	Rated Current [A]	DCR [Ω] (Max.)	Wire Diam [mm] (Nom.)
CMC1511-R51-1A	0.51	1.0	0.040	0.41
CMC1511-R85-1A	0.85	1.0	0.060	0.41
CMC1511-1R7-1A	1.70	1.0	0.070	0.41
CMC1511-2R5-1A	2.55	1.0	0.100	0.41
CMC1511-4R2-1A	4.25	1.0	0.125	0.41
CMC1511-R51-2A	0.51	2.0	0.030	0.51
CMC1511-R85-2A	0.85	2.0	0.040	0.51
CMC1511-1R7-2A	1.70	2.0	0.060	0.51
CMC1511-2R5-2A	2.55	2.0	0.075	0.51
CMC1511-R51-3A	0.51	3.0	0.020	0.58
CMC1511-R85-3A	0.85	3.0	0.030	0.58
CMC2041-R85-2A	0.85	2.0	0.050	0.58
CMC2041-1R7-2A	1.70	2.0	0.075	0.58
CMC2041-2R5-2A	2.55	2.0	0.085	0.58
CMC2041-4R2-2A	4.25	2.0	0.110	0.58
CMC2041-6R8-2A	6.80	2.0	0.200	0.58
CMC2041-R85-5A	0.85	5.0	0.035	0.58
CMC3020-1R7-5A	1.70	5.0	0.040	0.76
CMC3020-4R2-4A	4.25	4.0	0.046	0.76
CMC3020-6R8-4A	6.80	4.0	0.060	0.76
CMC3020-42R-2A	42.5	2.0	0.200	0.58
CMC3020-25R-4A	25.5	4.0	0.130	0.76
CMC3020-9R3-5A	9.35	5.0	0.072	0.91
CMC3020-2R5-10A	2.55	10	0.020	1.17



Features

- Low cost, high performance
- Ideal for signal line applications
- Flammability corresponding to UL94V-0

Applications

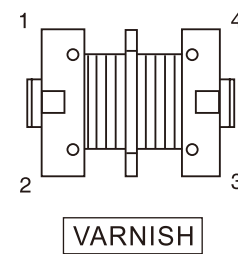
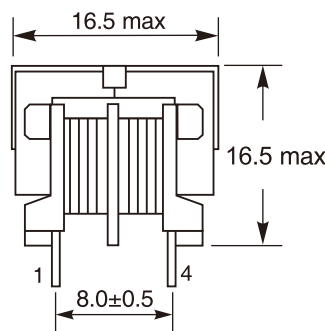
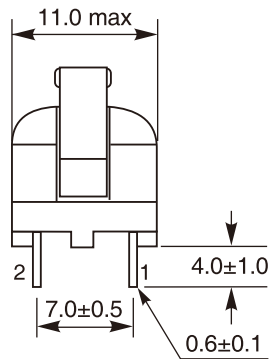
- Mains filter, Lighting
- Compact switched-mode power supplies
- Electronic ballast applications (LED bulb)

General Specifications

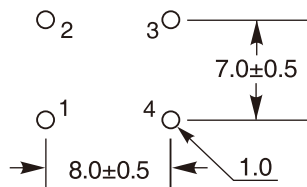
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C



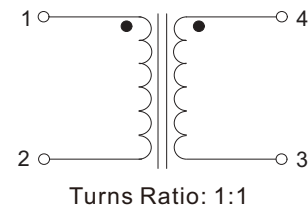
Shape and Dimensions (Unit:mm)



Suggested PCB Layout



Schematic



Electrical Specifications @ 25°C

Part Number	Inductance [mH] 1-2/4-3 (min)	DCR [Ω] (max)	Rated Current [A]	Rated Voltage [Vac]	Insulation Resistance [M Ω] (min)
UU9.8-471	0.47	0.15	1.00	300	100
UU9.8-681	0.68	0.25	0.85	300	100
UU9.8-102	1.0	0.35	0.70	300	100
UU9.8-222	2.2	0.7	0.50	300	100
UU9.8-392	3.9	1.2	0.38	300	100
UU9.8-472	4.7	1.6	0.34	300	100
UU9.8-682	6.8	2.5	0.25	300	100
UU9.8-103	10.0	4.0	0.20	300	100

- Inductance tested at 1kHz
- Hi-pot: AC1500V/5mA/2S (N1-N2)
- Rated Current: The DC current at which the temperature rise is 40°C



Features

- Low cost, high performance
- Horizontal configuration, H:12.5mm
- Flammability corresponding to UL94V-0

Applications

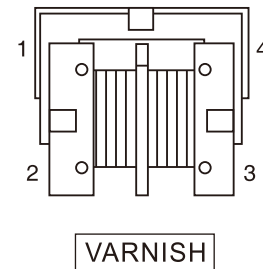
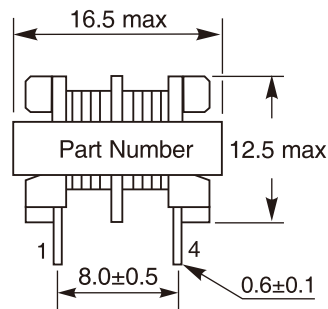
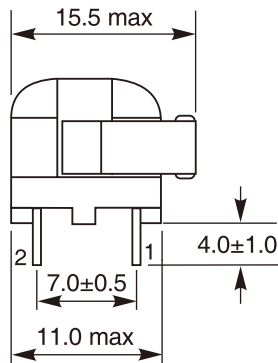
- Mains filter, Lighting
- Compact switched-mode power supplies
- Electronic ballast applications (LED bulb)

General Specifications

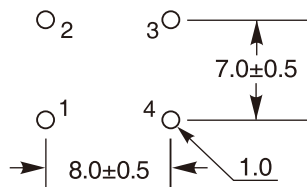
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C



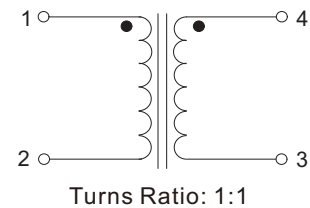
Shape and Dimensions (Unit:mm)



Suggested PCB Layout



Schematic



Electrical Specifications @ 25°C

Part Number	Inductance [mH] 1-2/4-3 (min)	DCR [Ω] (max)	Rated Current [A]	Rated Voltage [Vac]	Insulation Resistance [M Ω] (min)
UU9.8H-471	0.47	0.15	1.00	300	100
UU9.8H-681	0.68	0.25	0.85	300	100
UU9.8H-102	1.0	0.35	0.70	300	100
UU9.8H-222	2.2	0.7	0.50	300	100
UU9.8H-392	3.9	1.2	0.38	300	100
UU9.8H-472	4.7	1.6	0.34	300	100
UU9.8H-682	6.8	2.5	0.25	300	100
UU9.8H-103	10.0	4.0	0.20	300	100

- Inductance tested at 1kHz
- Hi-pot: AC1500V/5mA/2S (N1-N2)
- Rated Current: The DC current at which the temperature rise is 40°C



Features

- Low cost, high performance
- Custom designs are available
- Flammability corresponding to UL94V-0

Applications

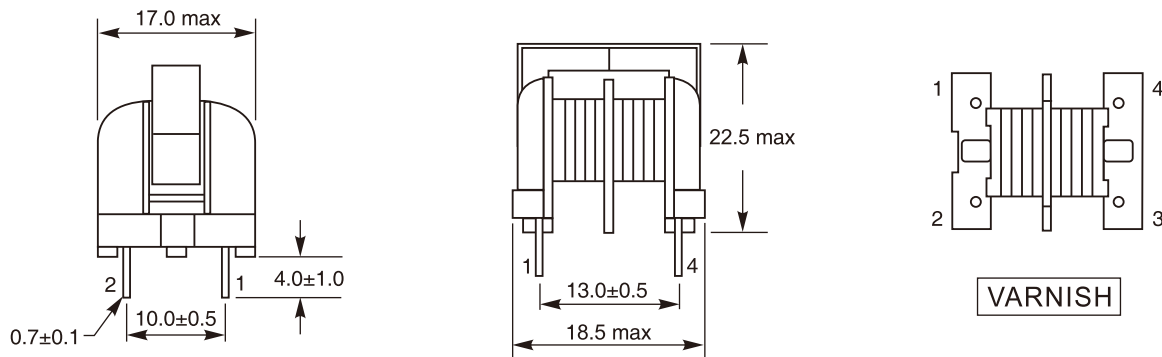
- Mains filter, Lighting
- Compact switched-mode power supplies
- Electronic ballast applications (LED bulb)

General Specifications

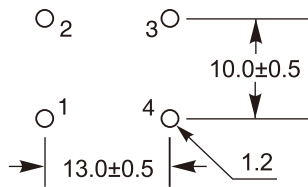
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C



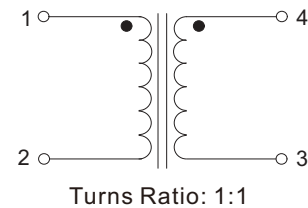
Shape and Dimensions (Unit:mm)



Suggested PCB Layout



Schematic



Electrical Specifications @ 25°C

Part Number	Inductance [mH] 1-2/4-3 (min)	DCR [Ω] (max)	Rated Current [A]	Rated Voltage [Vac]	Insulation Resistance [M Ω] (min)
UU10-601	0.6	0.20	2.00	300	100
UU10-102	1.0	0.20	1.50	300	100
UU10-332	3.3	0.71	0.65	300	100
UU10-682	6.8	1.26	0.43	300	100
UU10-123	12	2.20	0.34	300	100
UU10-223	22	3.64	0.25	300	100
UU10-333	33	5.74	0.20	300	100
UU10-513	51	9.12	0.15	300	100

- Inductance tested at 1kHz
- Hi-pot: AC1500V/5mA/2S (N1-N2)
- Rated Current: The DC current at which the temperature rise is 40°C



Features

- Low cost, high performance
- reduce height to under 19.0mm
- Flammability corresponding to UL94V-0

Applications

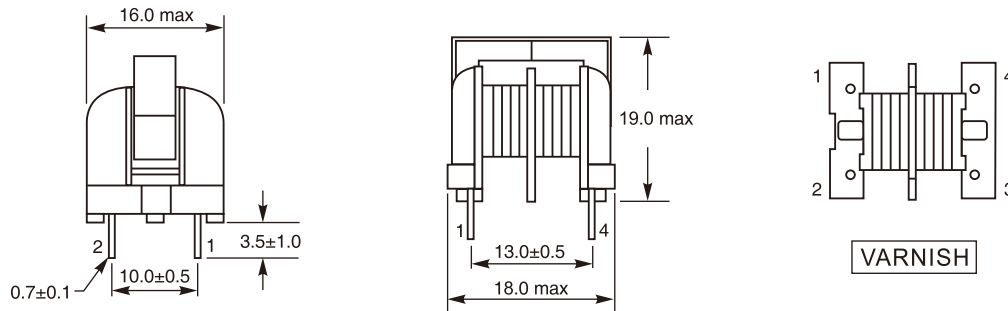
- Mains filter, Lighting
- Compact switched-mode power supplies
- Electronic ballast applications (LED bulb)

General Specifications

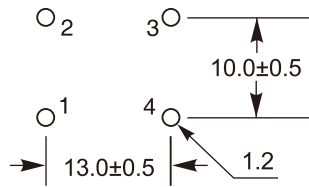
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C



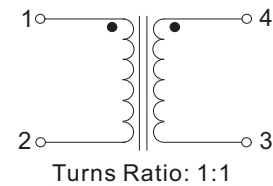
Shape and Dimensions (Unit:mm)



Suggested PCB Layout



Schematic



Electrical Specifications @ 25°C

Part Number	Inductance [mH] 1-2/4-3 (min)	DCR [Ω] (max)	Rated Current [A]	Rated Voltage [Vac]	Insulation Resistance [M Ω] (min)
UU10.5H-152	1.5	0.15	2.0	300	100
UU10.5H-182	1.8	0.18	1.7	300	100
UU10.5H-222	2.2	0.22	1.5	300	100
UU10.5H-302	3.0	0.26	1.3	300	100
UU10.5H-352	3.5	0.32	1.2	300	100
UU10.5H-552	5.5	0.46	1.0	300	100
UU10.5H-742	7.4	0.64	0.8	300	100
UU10.5H-103	10	0.86	0.7	300	100
UU10.5H-123	12	1.20	0.6	300	100
UU10.5H-203	20	1.80	0.5	300	100
UU10.5H-303	30	2.70	0.4	300	100
UU10.5H-363	36	3.50	0.3	300	100
UU10.5H-433	43	4.00	0.3	300	100

- Inductance tested at 1kHz
- Hi-pot: AC1500V/5mA/2S (N1-N2)
- Rated Current: The DC current at which the temperature rise is 40°C



Features

- Low cost, high performance
- Custom designs are available
- Flammability corresponding to UL94V-0

Applications

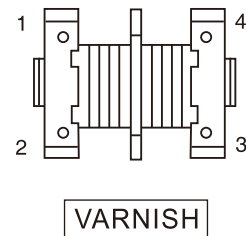
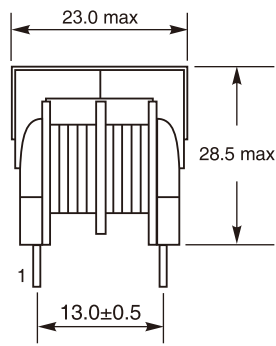
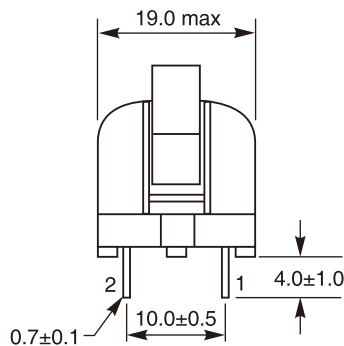
- Mains filter, Lighting
- Compact switched-mode power supplies
- Electronic ballast applications (LED bulb)

General Specifications

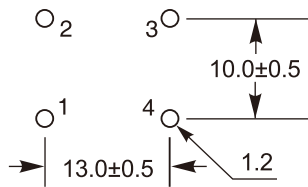
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C



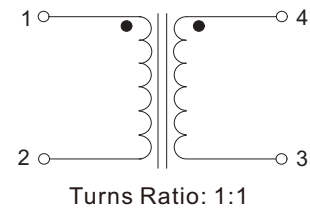
Shape and Dimensions (Unit:mm)



Suggested PCB Layout



Schematic



Electrical Specifications @ 25°C

Part Number	Inductance [mH] 1-2/4-3 (min)	DCR [Ω] (max)	Rated Current [A]	Rated Voltage [Vac]	Insulation Resistance [M Ω] (min)
UU16-152	1.5	0.20	1.50	300	100
UU16-302	3.0	0.30	1.20	300	100
UU16-402	4.0	0.40	1.10	300	100
UU16-602	6	0.50	1.00	300	100
UU16-802	8	0.80	0.80	300	100
UU16-103	10	1.20	0.60	300	100
UU16-203	20	1.60	0.50	300	100
UU16-303	30	2.80	0.40	300	100

- Inductance tested at 1kHz
- Hi-pot: AC1500V/5mA/2S (N1-N2)
- Rated Current: The DC current at which the temperature rise is 40°C



Features

- Closed magnetic circuit
- Easy PCB mounting
- Custom designs are available

Applications

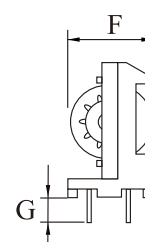
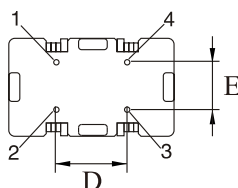
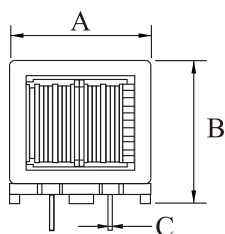
- Mains filter
- Switched mode power supplies
- White goods

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

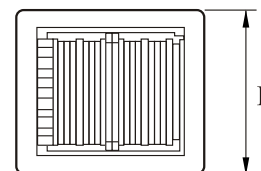
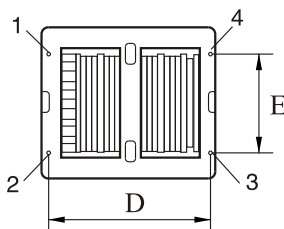
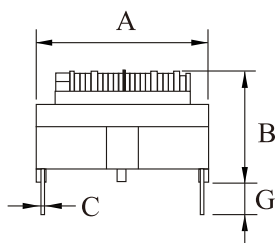


Shape and Dimensions (Unit:mm)



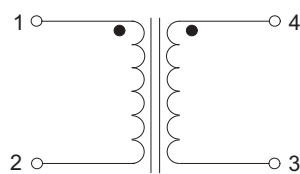
VARNISH

Type	A (max)	B (max)	C (± 0.1)	D (± 0.5)	E (± 0.5)	F (max)	G (± 1.0)
ET24V	26.0	31.0	$\Phi 0.8$	13	10	19.0	4
ET28V	30.5	36.0	$\Phi 0.8$	13	10	22.0	4
ET35V	37.0	45.0	$\Phi 1.2$	21	15	26.0	4



Type	A (max)	B (max)	C (± 0.1)	D (± 0.5)	E (± 0.5)	F (max)	G (± 1.0)
ET24H	26.0	22.0	$\Phi 0.8$	21	15	26.0	4
ET28H	30.0	26.0	$\Phi 0.8$	24	20	30.0	4
ET35H	37.0	28.5	$\Phi 1.0$	30	25	37.0	4

Schematic



Turns Ratio: 1:1

▶ Electrical Characteristics For ET24V / ET24H Series

Part Number	Part Number	Inductance [mH] 1-2/4-3 (min)	DCR (max) [Ω]	Rated Current [A]
ET24V-242	ET24H-242	2.4	0.09	2.5
ET24V-332	ET24H-332	3.3	0.11	2.0
ET24V-392	ET24H-392	3.9	0.15	1.8
ET24V-452	ET24H-452	4.5	0.19	1.5
ET24V-103	ET24H-103	10	0.38	1.2
ET24V-203	ET24H-203	20	0.64	1.0
ET24V-253	ET24H-253	25	0.88	0.8
ET24V-333	ET24H-333	33	1.20	0.6
ET24V-453	ET24H-453	45	1.65	0.5
ET24V-683	ET24H-683	68	2.30	0.4

▶ Electrical Characteristics For ET28V / 28H Series

Part Number	Part Number	Inductance [mH] 1-2/4-3 (min)	DCR (max) [Ω]	Rated Current [A]
ET28V-182	ET28H-182	1.8	0.05	4.0
ET28V-332	ET28H-332	3.3	0.09	3.0
ET28V-472	ET28H-472	4.7	0.10	2.8
ET28V-562	ET28H-562	5.6	0.13	2.5
ET28V-802	ET28H-802	8	0.18	2.0
ET28V-123	ET28H-123	12	0.27	1.8
ET28V-203	ET28H-203	20	0.41	1.5
ET28V-253	ET28H-253	25	0.56	1.2
ET28V-353	ET28H-353	35	0.78	1.0

▶ Electrical Characteristics For ET35V / 35H Series

Part Number	Part Number	Inductance[mH] 1-2/4-3 (min)	DCR (max) [Ω]	Rated Current [A]
ET35V-472	ET35H-472	4.7	0.07	4.0
ET35V-562	ET35H-562	5.6	0.08	3.5
ET35V-822	ET35H-822	8.2	0.11	3.0
ET35V-103	ET35H-103	10	0.14	2.7
ET35V-123	ET35H-123	12	0.17	2.5
ET35V-153	ET35H-153	15	0.21	2.2
ET35V-183	ET35H-183	18	0.23	2.0
ET35V-223	ET35H-223	22	0.29	1.8
ET35V-333	ET35H-333	33	0.42	1.5

- Inductance tested at 1kHz
- Hi-pot: AC2000V/5mA/2S (N1-N2)
- Rated Current: The current at which the temperature rise is 40°C



Features

- Closed rectangular ferrite core
- Flammability corresponding to UL94V-0
- Custom designs are available

Applications

- Mains filter
- Switched mode power supplies
- White goods

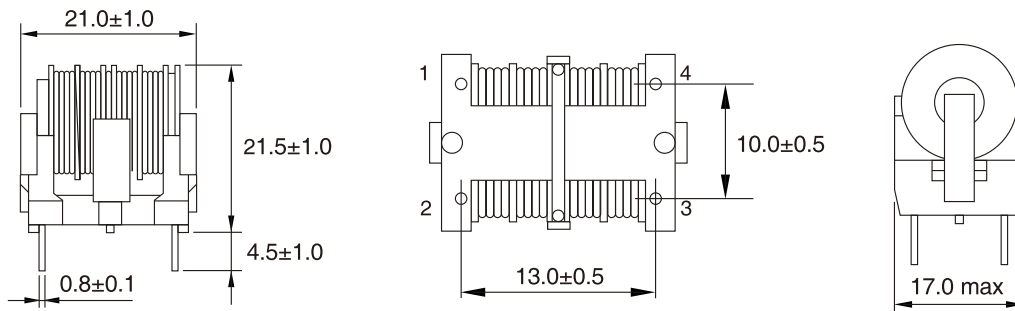
General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



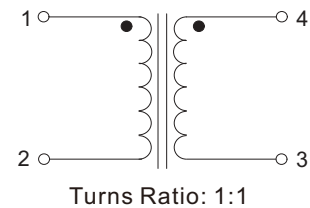
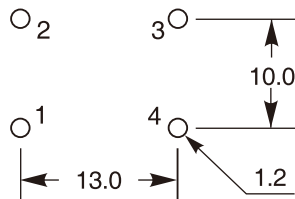
Shape and Dimensions (Unit:mm)

VARNISH



Suggested PCB Layout

Schematic



Electrical Specifications @ 25°C

Part Number	Inductance [mH] 1-2/4-3 (min)	Inductance Balance (max) [μH]	DCR (max) [Ω]	Rated Current [A]
UT20-222	2.2	150	0.24	1.3
UT20-392	3.9	150	0.41	1.0
UT20-103	10	550	1.00	0.6
UT20-183	18	600	1.63	0.5
UT20-223	22	800	2.04	0.4
UT20-333	33	800	3.42	0.3

- Inductance tested at 1kHz
- Hi-pot: AC2000V/5mA/2S (N1-N2)
- Rated Current: The current at which the temperature rise is 45°C



Features

- Horizontal structure
- Flammability corresponding to UL94V-0
- Custom designs are available

Applications

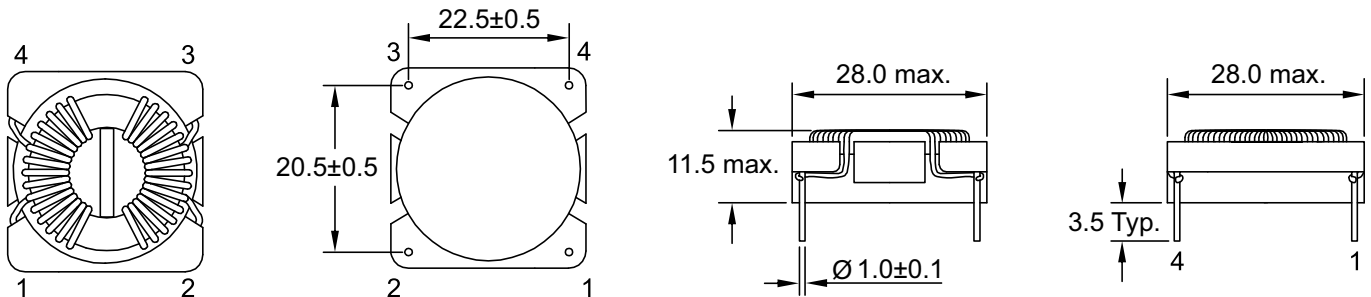
- Power electronics
- Power line in and output filter
- Suppression of common mode noise

General Specifications

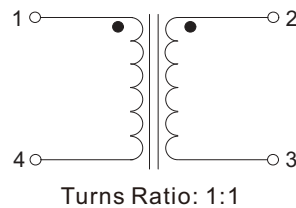
- Storage temp range: -40°C to +105°C
- Operating temp range: -40°C to +105°C
- Moisture Sensitivity Level(MSL): 1



Dimensions & Configurations (Unit:mm)



Schematic



Electrical Specifications @ 25°C

Part Number	Inductance [mH] (min.)	Rated Current [A]	DCR(max) [mΩ]
CMH2220-681U-5.0A	0.68	5.0	15
CMH2220-122U-4.5A	1.2	4.5	30
CMH2220-182U-3.5A	1.8	3.5	30
CMH2220-682U-2.5A	6.8	2.5	80
CMH2220-103U-2.0A	10	2.0	150
CMH2220-123U-1.8A	12	1.8	200
CMH2220-223U-1.5A	22	1.5	250

- Inductance is per winding tested at 10kHz, 0.1V
- Hi-pot: AC1500V/5mA/2S (N1-N2)
- Rated Voltage: 250VAC max



Features

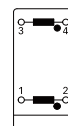
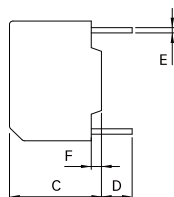
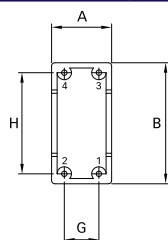
- Dual-choke configuration.
- Small compact design
- Multiple housing options
- Custom-specifie versions available on request.

General Specifications

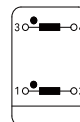
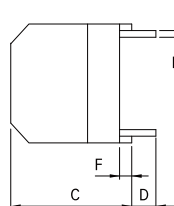
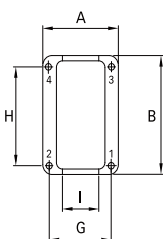
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F	G	H
TCC202	9	19	15.6	4.5	0.7	1	5	15



Type	A	B	C	D	E	F	G	H
TCC212	13	18	20	4	0.7	1	10	15
TCC214	15.5	23	25	4	0.7	1	12.5	10
TCC222	18	27	30	4	0.7	1.5	15	12.5
TCC242	18	32	32	4.2	0.7	1.5	15	12.5

- Max operating voltage:250V at 40°C
- Rated Current: rating AC/DC current A @ 40°C max.
- Hi-pot 1500Vac winding to winding 3S.

► Electrical Characteristics For TCC202 Series

Part Number	Inductance (mH) +50%/-30%	DCR (mΩ) max.	Rated Current (A)
TCC202-123Y	12	1275	0.3
TCC202-442Y	4.4	385	0.6
TCC202-302Y	3	205	1
TCC202-162Y	1.6	100	1.5
TCC202-112Y	1.1	70	2

► Electrical Characteristics For TCC212 Series

Part Number	Inductance (mH) +50%/-30%	DCR (mΩ) max.	Rated Current (A)
TCC212-393Y	39	1460	0.4
TCC212-273Y	27	1250	0.5
TCC212-153Y	15	465	0.6
TCC212-103Y	10	370	0.8
TCC212-682Y	6.8	245	1.2
TCC212-332Y	3.3	135	1.5
TCC212-182Y	1.8	75	2
TCC212-701Y	0.7	27	4

► Electrical Characteristics For TCC214 Series

Part Number	Inductance (mH) +50%/-30%	DCR (mΩ) max.	Rated Current (A)
TCC214-473Y	47	1750	0.3
TCC214-393Y	39	810	0.5
TCC214-273Y	27	500	0.8
TCC214-153Y	15	375	1
TCC214-103Y	10	200	1.2
TCC214-682Y	6.8	130	1.5
TCC214-422Y	4.2	102	2
TCC214-332Y	3.3	72	2.5
TCC214-202Y	2	55	3
TCC214-152Y	1.5	35	4

► Electrical Characteristics For TCC222 Series

Part Number	Inductance (mH) +50%/-30%	DCR (mΩ) max.	Rated Current (A)
TCC222-473Y	47	1180	0.6
TCC222-393Y	39	1000	0.8
TCC222-183Y	18	610	1
TCC222-103Y	10	220	1.5
TCC222-682Y	6.8	147	2
TCC222-562Y	5.6	105	2.5
TCC222-452Y	4.5	80	3
TCC222-332Y	3.3	45	4

► Electrical Characteristics For TCC242 Series

Part Number	Inductance (mH) +50%/-30%	DCR (mΩ) max.	Rated Current (A)
TCC242-823Y	82	2700	0.5
TCC242-333Y	33	810	1
TCC242-273Y	27	500	1.4
TCC242-682Y	6.8	190	2
TCC242-332Y	3.3	66	4
TCC242-182Y	1.8	20	6



Features

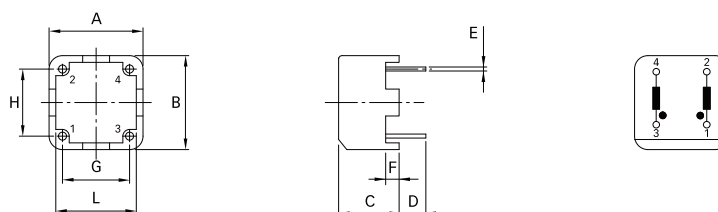
- Dual-choke configuration.
- Small compact design
- Multiple housing options
- Custom-specifie versions available on request.

General Specifications

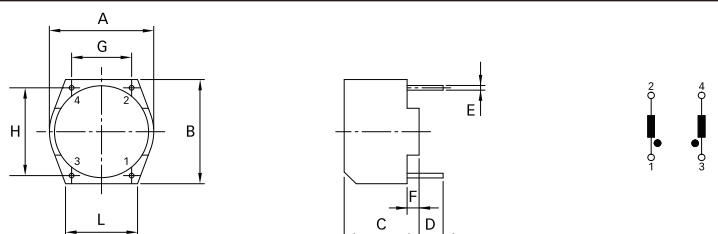
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensivity Level(MSL): 1



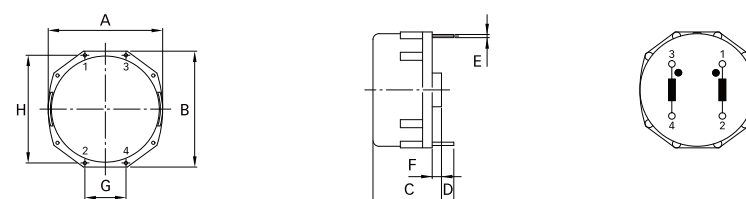
► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F	G	H
HCC102	14	14	9	4	0.6	2	10	10



Type	A	B	C	D	E	F	G	H
HCC112	17.5	17.5	12.5	4	0.7	2	10	15
HCC114	21.5	22.5	13.2	4	0.7	2	12.5	20
HCC122	27.5	27.5	17.5	4	0.7	2	15	25
HCC142	32.5	33.1	19.7	4.3	0.8	2	20	30
HCC143	32.5	33.1	19.7	4.3	0.8	2	20	30



Type	A	B	C	D	E	F	G	H
HCC152	41.8	43	25	4.5	1.2	3.4	15	40

- Max operating voltage:250V at 40°C
- Rated Current: rating AC/DC current A @ 40°C max.
- Hi-pot 1500Vac winding to winding 3S.

▶ Electrical Characteristics For HCC102 Series

Part Number	Inductance (mH) +50%/-30%	DCR (mΩ) max.	Rated Current (A)
HCC102-223Y	22	1300	0.3
HCC102-123Y	12	1100	0.3
HCC102-442Y	4.4	380	0.6
HCC102-302Y	3	210	1
HCC102-162Y	1.6	94	1.5
HCC102-112Y	1.1	70	2

▶ Electrical Characteristics For HCC112 Series

Part Number	Inductance (mH) +50%/-30%	DCR (mΩ) max.	Rated Current (A)
HCC112-393Y	39	1460	0.4
HCC112-273Y	27	1250	0.5
HCC112-153Y	15	465	0.6
HCC112-103Y	10	370	0.8
HCC112-682Y	6.8	245	1.2
HCC112-332Y	3.3	135	1.5
HCC112-182Y	1.8	75	2
HCC112-701Y	0.7	27	4

▶ Electrical Characteristics For HCC114 Series

Part Number	Inductance (mH) +50%/-30%	DCR (mΩ) max.	Rated Current (A)
HCC114-473Y	47	1750	0.3
HCC114-393Y	39	810	0.5
HCC114-273Y	27	500	0.8
HCC114-153Y	15	375	1
HCC114-103Y	10	200	1.2
HCC114-682Y	6.8	130	1.5
HCC114-422Y	4.2	102	2
HCC114-332Y	3.3	72	2.5
HCC114-202Y	2	55	3
HCC114-152Y	1.5	35	4

▶ Electrical Characteristics For HCC122 Series

Part Number	Inductance (mH) +50%/-30%	DCR (mΩ) max.	Rated Current (A)
HCC122-473Y	47	1180	0.6
HCC122-393Y	39	1000	0.8
HCC122-183Y	18	610	1
HCC122-103Y	10	220	1.5
HCC122-682Y	6.8	147	2
HCC122-562Y	5.6	105	2.5
HCC122-452Y	4.5	80	3
HCC122-332Y	3.3	45	4

▶ Electrical Characteristics For HCC142 Series

Part Number	Inductance (mH) +50%/-30%	DCR (mΩ) max.	Rated Current (A)
HCC142-823Y	82	2700	0.5
HCC142-333Y	33	810	1
HCC142-273Y	27	500	1.4
HCC142-682Y	6.8	190	2
HCC142-332Y	3.3	66	4
HCC142-182Y	1.8	20	6

▶ Electrical Characteristics For HCC143 Series

Part Number	Inductance (mH) +50%/-30%	DCR (mΩ) max.	Rated Current (A)
HCC143-104Y	100	2900	0.5
HCC143-473Y	47	880	1
HCC143-103Y	10	230	2
HCC143-392Y	3.9	58	4
HCC143-182Y	1.8	20	6

▶ Electrical Characteristics For HCC152 Series

Part Number	Inductance (mH) +50%/-30%	DCR (mΩ) max.	Rated Current (A)
HCC152-683Y	68	1300	1
HCC152-183Y	18	350	2
HCC152-682Y	6.8	87	4
HCC152-392Y	3.9	41	6
HCC152-272Y	2.7	22	8
HCC152-182Y	1.8	14	10



Features

- 3-wire choke configuration.
- straightforward pin-out for easy PCB design
- Custom-specific versions on request

General Specifications

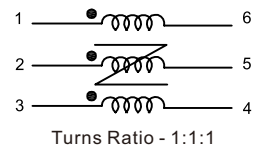
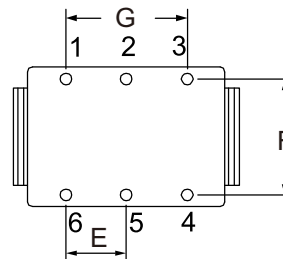
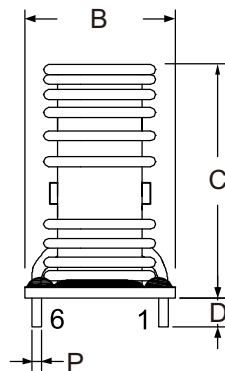
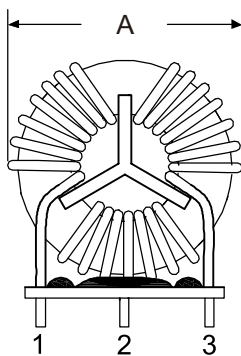
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C

Applications

- AC and DC Filtering application
- Communication devices
- Converters
- Electronic devices, LED lighting



► Dimensions & Configurations (Unit:mm)



Type	A (Max)	B (Max)	C (Max)	D (±1.0)	E (±0.5)	F (±0.5)	G (±0.5)
CTP8532-602Y-6A CTP8532-482Y-8A	44	32	47	5	18	24	36
CTP8532-402Y-10A CTP8532-362Y-12A	49	34	53	5	19	24	38
CTP8532-302Y-16A CTP8532-252Y-20A	56	37	60	5	23	29	46

► Electrical Characteristics For CTP8532 Series

Part Number	Inductance (+50%/-30%) [uH]	DCR (+15%) [mΩ]	Rated Current [A]	ØPin (±0.1) ØP [mm]
CTP8532-602Y-6A	6	27	6	1.1
CTP8532-482Y-8A	4.8	17	8	1.3
CTP8532-402Y-10A	4	15	10	1.5
CTP8532-362Y-12A	3.6	12	12	1.6
CTP8532-302Y-16A	3	8	16	1.8
CTP8532-252Y-20A	2.5	7	20	2.1

- Inductance Test condition: 100KHz/1V
- HI-POT test (Coil-Coil): 1500VAC, 1mA, 2sec.



Features

- Small size and high impedance.
- Monolithic structure.
- Low DC resistance structure of electrode prevents wasteful electric power consumption

General Specifications

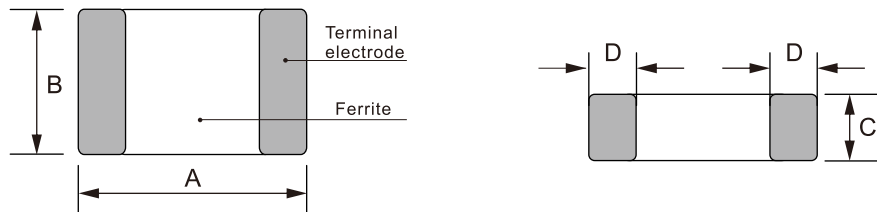
- Operating temp range: -55°C to +125°C
- Storage temp range: -40°C to +85°C

Applications

- Computers
- VCRS, Television, Pagers
- Cellular phones.
- Various electronics equipments
- Digital communication equipment



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D
MSMB100505(0402)	1.0±0.05	0.5±0.05	0.5±0.05	0.25±0.1
MSMB160808(0603)	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
MSMB201209(0805)	2.0±0.2	1.25±0.2	0.9±0.2	0.5±0.3
MSMB321611(1206)	3.2±0.2	1.6±0.2	1.1±0.2	0.5±0.3
MSMB322513(1210)	3.2±0.2	2.5±0.2	1.3±0.2	0.8±0.3
MSMB451616(1806)	4.5±0.2	1.6±0.2	1.6±0.2	0.8±0.3
MSMB453215(1812)	4.5±0.2	3.2±0.2	1.5±0.2	0.8±0.3

► Electrical Characteristics For MSMB100505 Series

Part Number	Impedance (100MHz) [Ω]±25%	DCR(max) [Ω]	Rated Current [mA]
MSMB100505A300	30	0.20	300
MSMB100505A600	60	0.25	300
MSMB100505A121	120	0.40	300
MSMB100505A221	220	0.70	300
MSMB100505A301	300	0.80	300
MSMB100505A471	470	1.00	200
MSMB100505A601	600	1.00	200
MSMB100505A102	1000	1.00	200
MSMB100505K152	1500	1.50	150
MSMB100505K182	1800	1.50	150

► Electrical Characteristics For MSMB160808 Series

Part Number	Impedance (100MHz) [Ω]±25%	DCR(max) [Ω]	Rated Current [mA]
MSMB160808A300	30	0.20	700
MSMB160808A600	60	0.20	700
MSMB160808A121	120	0.25	600
MSMB160808A151	150	0.25	600
MSMB160808A221	220	0.30	550
MSMB160808A301	300	0.35	500
MSMB160808A471	470	0.45	350
MSMB160808A601	600	0.50	350
MSMB160808A102	1000	0.70	200
MSMB160808K152	1500	1.00	200
MSMB160808K202	2000	1.20	150

► Electrical Characteristics For MSMB201209 Series

PartNumber	Impedance (100MHz) [Ω]±25%	DCR(max) [Ω]	Rated Current [mA]
MSMB201209A300	30	0.10	900
MSMB201209A400	40	0.10	800
MSMB201209A600	60	0.10	800
MSMB201209A121	120	0.20	750
MSMB201209A151	150	0.20	700
MSMB201209A221	220	0.30	700
MSMB201209A301	300	0.30	600
MSMB201209A471	470	0.35	600
MSMB201209A601	600	0.40	500
MSMB201209A102	1000	0.45	400
MSMB201209A152	1500	0.70	300
MSMB201209B101	100	0.20	300
MSMB201209B272	2700	0.60	200

► Electrical Characteristics For MSMB321611 Series

Part Number	Impedance (100MHz) [Ω]±25%	DCR(max) [Ω]	Rated Current [mA]
MSMB321611A260	26	0.10	800
MSMB321611A310	31	0.10	800
MSMB321611A520	52	0.15	800
MSMB321611A600	60	0.15	500
MSMB321611A700	70	0.15	500
MSMB321611A101	100	0.20	450
MSMB321611A121	120	0.20	450
MSMB321611A151	150	0.20	450
MSMB321611A221	220	0.20	350
MSMB321611A301	300	0.20	350
MSMB321611A401	400	0.25	350
MSMB321611A601	600	0.25	350
MSMB321611A751	750	0.30	350
MSMB321611A102	1000	0.35	350
MSMB321611A152	1500	0.40	350

► Electrical Characteristics For MSMB322513 Series

Part Number	Impedance (100MHz) [Ω]±25%	DCR(max) [Ω]	Rated Current [mA]
MSMB322513A310	31	0.1	500
MSMB322513A520	52	0.3	400
MSMB322513A600	60	0.3	400

► Electrical Characteristics For MSMB451616 Series

Part Number	Impedance (100MHz) [Ω]±25%	DCR(max) [Ω]	Rated Current [mA]
MSMB451616A600	60	0.2	500
MSMB451616A800	80	0.3	400
MSMB451616A101	100	0.3	400
MSMB451616A151	150	0.5	200
MSMB451616A601	600	0.8	200

► Electrical Characteristics For MSMB453215 Series

Part Number	Impedance (100MHz) [Ω]±25%	DCR(max) [Ω]	Rated Current [mA]
MSMB453215A600	60	0.2	500
MSMB453215A121	120	0.2	500
MSMB453215A151	150	0.2	500

Multilayer Chip Suppressors (Chip Beads) MSMA Series - Rated Current: 1-3A



Features

- Small size and high impedance.
- Monolithic structure.
- Low DC resistance structure of electrode prevents wasteful electric power consumption

General Specifications

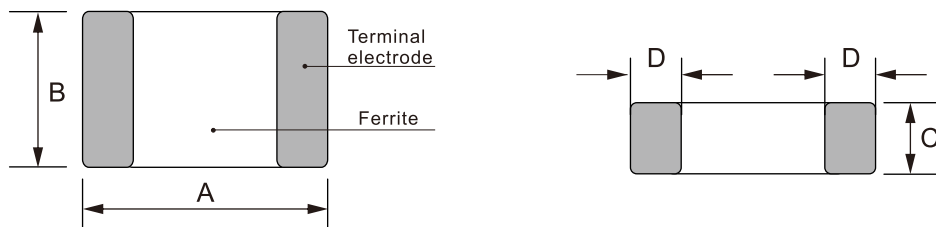
- Operating temp range: -55°C to +125°C
- Storage temp range: -40°C to +85°C

Applications

- Computers
- VCRS, Television, Pagers
- Cellular phones.
- Various electronics equipments
- Digital communication equipment



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D
MSMA1005 (0402)	1.0±0.15	0.5±0.15	0.5±0.15	0.25±0.1
MSMA1608 (0603)	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
MSMA2012 (0805)	2.0(+0.3/-0.1)	1.25±0.2	0.9±0.2	0.5±0.3
			1.25±0.2	
MSMA3216 (1206)	3.2±0.2	1.6±0.2	0.9±0.2	0.5±0.3
			1.1±0.2	
MSMA3225 (1210)	3.2±0.2	2.5±0.2	1.3±0.3	0.8±0.2
MSMA4516 (1806)	4.5±0.2	1.6±0.2	1.6±0.3	0.8±0.2
MSMA4532 (1812)	4.5±0.2	3.2±0.2	1.5±0.3	0.8±0.2

► Electrical Characteristics For MSMA1005 Series

Part Number	Impedance [Ω]±25% (100MHz)	DCR(max) [Ω]	IDC(max) [mA]
MSMA100505A100	10	0.05	2500
MSMA100505A600	60	0.15	1500
MSMA100505A1211.2A	120	0.09	1200
MSMA100505A1212A	120	0.095	2000
MSMA100505A221	220	0.15	1500

Multilayer Chip Suppressors (Chip Beads)

MSMA Series - Rated Current: 1-3A

▶ Electrical Characteristics For MSMA1608 Series

Part Number	Impedance [Ω] $\pm 25\%$ (100MHz)	DCR(max) [Ω]	Rated Current [mA]
MSMA160808A300	30	0.04	3000
MSMA160808A800	80	0.04	3000
MSMA160808A1212A	120	0.10	2000
MSMA160808A1213A	120	0.05	3000
MSMA160808A151	150	0.10	2000
MSMA160808A1812A	180	0.10	2000
MSMA160808A1813A	180	0.05	3000
MSMA160808A221	220	0.10	2000
MSMA160808A3011A	300	0.20	1000
MSMA160808A3012A	300	0.15	2000
MSMA160808A331	330	0.10	2000
MSMA160808A471	470	0.20	1000
MSMA160808A6011A	600	0.20	1000
MSMA160808A6012A	600	0.10	2000
MSMA160808A102	1000	0.25	1000
MSMA160808A122	1200	0.25	1000

▶ Electrical Characteristics For MSMA2012 Series

Part Number	Impedance [Ω] $\pm 25\%$ (100MHz)	DCR(max) [Ω]	Rated Current [mA]
MSMA201209A300	30	0.04	3000
MSMA201209A600	60	0.04	3000
MSMA201209A800	80	0.04	3000
MSMA201209A101	100	0.04	3000
MSMA201209A1212A	120	0.1	2000
MSMA201209A1213A	120	0.04	3000
MSMA201209A1512A	150	0.1	2000
MSMA201209A2212A	220	0.1	2000
MSMA201209A2213A	220	0.04	3000
MSMA201209A3011A	300	0.2	1000
MSMA201209A3012A	300	0.1	2000
MSMA201209A3013A	300	0.05	3000
MSMA201209A3312A	330	0.1	2000
MSMA201209A471	470	0.2	1000
MSMA201209A6011A	600	0.2	1000
MSMA201209A6012A	600	0.1	2000
MSMA201209A1021A	1000	0.3	1000
MSMA201209A1521A	1500	0.3	1000

Multilayer Chip Suppressors (Chip Beads)

MSMA Series - Rated Current: 1-3A

► Electrical Characteristics For MSMA3216 Series

Part Number	Impedance [Ω] $\pm 25\%$ (100MHz)	DCR(max) [Ω]	Rated Current [mA]
MSMA321609A190	19	0.05	3000
MSMA321609A260	26	0.05	3000
MSMA321609A300	30	0.07	3000
MSMA321609A310	31	0.07	3000
MSMA321609A500	50	0.07	3000
MSMA321609A600	60	0.07	3000
MSMA321609A700	70	0.07	3000
MSMA321609A800	80	0.07	3000
MSMA321609A101	100	0.07	3000
MSMA321609A121	120	0.07	3000
MSMA321609A221	220	0.12	2500
MSMA321609A301	300	0.15	2000
MSMA321609A501	500	0.2	2000
MSMA321609A601	600	0.2	2000
MSMA321609A102	1000	0.25	2000
MSMA321611A190	19	0.03	3000
MSMA321611A300	30	0.03	3000
MSMA321611A600	60	0.03	3000
MSMA321611A700	70	0.04	3000
MSMA321611A800	80	0.04	3000
MSMA321611A101	100	0.04	3000
MSMA321611A121	120	0.05	3000
MSMA321611A221	220	0.05	3000
MSMA321611A301	300	0.06	3000
MSMA321611A5012.5A	500	0.07	2500
MSMA321611A5013A	500	0.06	3000
MSMA321611A601	600	0.08	2000
MSMA321611A102	1000	0.3	1000

Multilayer Chip Suppressors (Chip Beads)

MSMA Series - Rated Current: 1-3A

► Electrical Characteristics For MSMA3225 Series

Part Number	Impedance [Ω] $\pm 25\%$ (100MHz)	DCR(max) [Ω]	Rated Current [mA]
MSMA322513A600	60	0.03	3000
MSMA322513A800	80	0.08	3000
MSMA322513A121	120	0.1	3000
MSMA322513A301	300	0.15	3000
MSMA322513A501	500	0.15	2000
MSMA322513A601	600	0.2	2000
MSMA322513A801	800	0.25	2000
MSMA322513A102	1000	0.3	2000

► Electrical Characteristics For MSMA4516 Series

Part Number	Impedance [Ω] $\pm 25\%$ (100MHz)	DCR(max) [Ω]	Rated Current [mA]
MSMA451616A600	60	0.04	3000
MSMA451616A800	80	0.04	3000
MSMA451616A101	100	0.04	3000
MSMA451616A851	850	0.1	1500
MSMA451616A102	1000	0.09	1500

► Electrical Characteristics For MSMA4532 Series

Part Number	Impedance [Ω] $\pm 25\%$ (100MHz)	DCR(max) [Ω]	Rated Current [mA]
MSMA453215A121	120	0.04	3000
MSMA453215A151	150	0.04	3000
MSMA453215K601	600	0.04	3000
MSMA453215K781	780	0.04	3000

Multilayer Chip Suppressors (Chip Beads)

MSMC Series - Rated Current: 4-6A



Features

- Small size and high impedance.
- Monolithic structure.
- Low DC resistance structure of electrode prevents wasteful electric power consumption

General Specifications

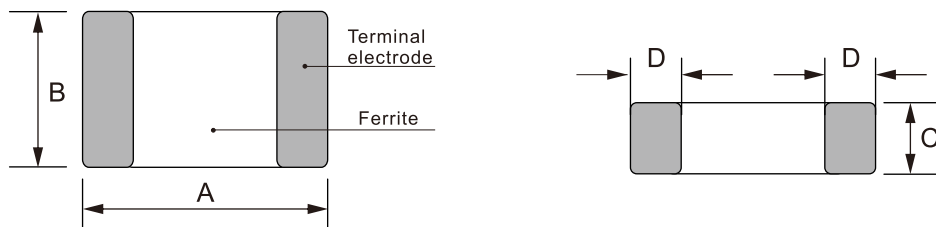
- Operating temp range: -55°C to +125°C
- Storage temp range: -40°C to +85°C

Applications

- Computers
- VCRS, Television, Pagers
- Cellular phones.
- Various electronics equipments
- Digital communication equipment



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D
MSMC1608 (0603)	1.6±0.2	0.8±0.15	0.8±0.15	0.3±0.2
MSMC2012 (0805)	2.0(+0.3/-0.1)	1.25±0.2	0.9±0.2	0.5±0.3
MSMC3216 (1206)	3.2±0.2	1.6±0.2	0.9±0.2	0.5±0.3
MSMC3225 (1210)	3.2±0.2	2.5±0.2	1.3±0.2	0.8±0.3
MSMC4516 (1806)	4.5±0.2	1.6±0.2	1.6±0.2	0.8±0.2
MSMC4532 (1812)	4.5±0.2	3.2±0.2	1.5±0.2	0.8±0.2
MSMC5650 (2220)	5.6±0.5	5.08±0.25	1.8±0.25	0.76±0.25
MSMC8530 (3312)	8.5±0.2	3.2±0.2	2.28±0.2	0.89±0.2

Multilayer Chip Suppressors (Chip Beads)

MSMC Series - Rated Current: 4-6A

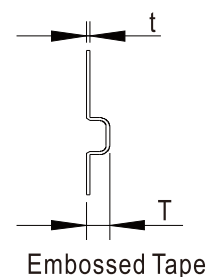
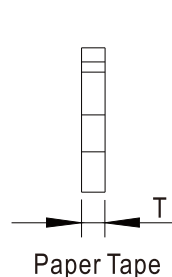
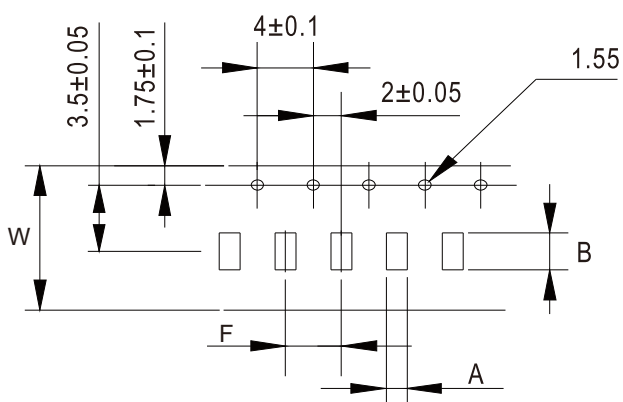
► Electrical Characteristics For MSMC Series

Part Number	Impedance (100MHz) [Ω]±25%	DCR(max) [Ω]	Rated Current [mA]
1608 Series			
MSMC160808A260	26	0.007	6000
2012 Series			
MSMC201209H070	7	0.008	6000
MSMC201209H110	11	0.008	6000
MSMC201209A170	17	0.008	6000
MSMC201209A300	30	0.008	6000
MSMC201209A390	39	0.008	6000
MSMC201209A600	60	0.020	6000
MSMC201209A800	80	0.020	6000
MSMC201209A121	120	0.025	6000
3216 Series			
MSMC321611A310	31	0.006	6000
MSMC321611A520	52	0.008	6000
MSMC321611A800	80	0.020	4000
MSMC321611A121	120	0.025	5000
3225 Series			
MSMC322513A520	52	0.008	6000
MSMC322513A600	60	0.008	6000
4516 Series			
MSMC451616A600	60	0.008	6000
4532 Series			
MSMC453215A600	60	0.008	6000
MSMC453215A121	120	0.020	6000
MSMC453215A151	150	0.020	6000
MSMC453215B700	70	0.008	6000
5650 Series			
MSMC565018K101	100	0.006	6000
MSMC565018K151	150	0.015	5000
MSMC565018K181	180	0.020	5000
MSMC565018K251	250	0.015	4000
8530 Series			
MSMC853022K101	100	0.004	10000

Multilayer Chip Suppressors (Chip Beads) MSMC Series - Rated Current: 4-6A

Tape & Reel Specifications:

Unit: mm



Type	Tape Dimensions (mm)						Tape type	Reel OD (mm)	Quantity PCS / Reel
	W	A	B	F	T	t			
MSMC160808	8	1.00	1.80	4.0	1.10	-	Paper Tape	178	4,000
MSMC201209	8	1.50	2.30	4.0	1.10	-	Paper Tape	178	4,000
MSMC321611	8	1.88	3.50	4.0	1.49	0.22	Embossed Tape	178	3,000
MSMC322513	8	2.90	3.50	4.0	1.65	0.28	Embossed Tape	178	2,000
MSMC451616	12	1.93	4.95	4.0	2.03	0.35	Embossed Tape	178	2,000
MSMC453215	12	3.66	4.95	4.0	1.95	0.33	Embossed Tape	178	1,000
MSMC565018	24	1.93	4.95	16.0	2.18	0.33	Embossed Tape	330	2,000
MSMC853022	24	3.66	4.95	16.0	2.67	0.33	Embossed Tape	330	2,500



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

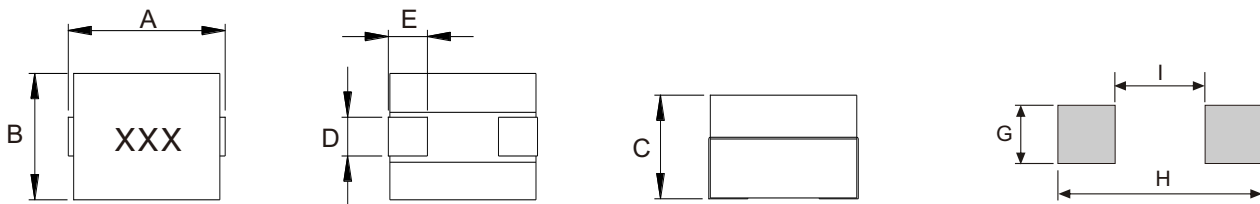
- 800PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC050506	5.2 Max	5.0 Max	6.1 Max	1.4 ± 0.2	2.0 ± 0.2	2.60	1.70	5.50

► Electrical Characteristics For MHC050506 Series

Part Number	Inductance [nH]	DCR [mΩ]	1-Isat@25°C (typ.) [A]	2-Isat@100°C (typ.) [A]	I _{rms} (typ.) [A]
MHC050506-50NL	$50 \pm 15\%$	$0.20 \pm 7\%$	68	58	44
MHC050506-70NL	$70 \pm 15\%$	$0.20 \pm 7\%$	60	50	44
MHC050506-R10M	$100 \pm 20\%$	$0.20 \pm 7\%$	35	29	44

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current
- All test data is referenced to 25°C ambient. 2-Isat Saturation current test data is referenced to 100°C



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

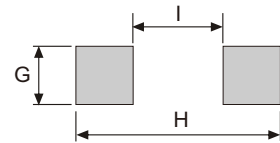
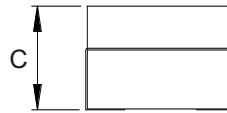
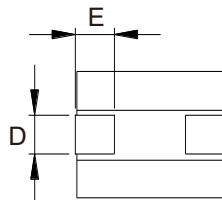
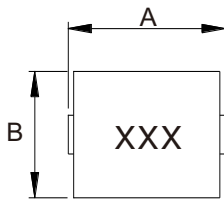
- 1300PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC6030	7.2 Max	6.7 Max	3.0 Max	3.0 ± 0.2	1.0 Min	4.50	2.50	7.50

► Electrical Characteristics For MHC6030 Series

Part Number	Inductance [nH]	DCR [$\text{m}\Omega$]	$I_{sat}(\text{typ.})$ [A]	$I_{rms}(\text{typ.})$ [A]
MHC6030-47NM	$47 \pm 20\%$	0.24 typ	42	39
MHC6030-64NM	$64 \pm 20\%$	0.24 typ	32	39

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

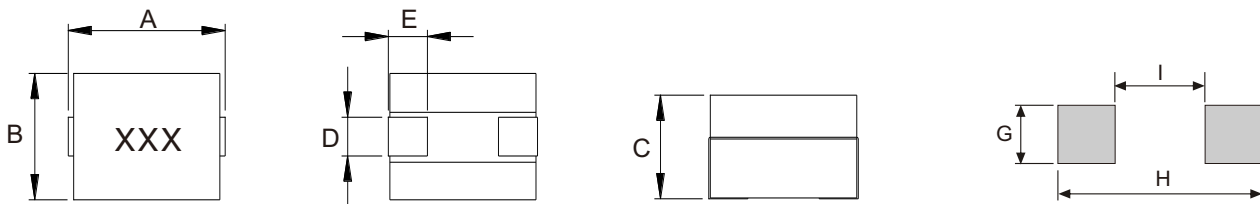
- 1000PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC7050	7.0 ± 0.5	6.6 ± 0.5	5.0 ± 0.5	2.5 ± 0.2	1.5 ± 0.2	3.00	4.00	8.00

► Electrical Characteristics For MHC7050 Series

Part Number	Inductance [nH]	DCR [$\text{m}\Omega$]	$I_{sat}(\text{typ.})$ [A]	$I_{rms}(\text{typ.})$ [A]
MHC7050-47NM	$47 \pm 20\%$	$0.26 \pm 7\%$	80	40
MHC7050-72NM	$72 \pm 20\%$	$0.26 \pm 7\%$	60	40
MHC7050-R10M	$100 \pm 20\%$	$0.26 \pm 7\%$	48	40
MHC7050-R15M	$150 \pm 20\%$	$0.26 \pm 7\%$	32	40
MHC7050-R20M	$200 \pm 20\%$	$0.26 \pm 7\%$	20	40
MHC7050-R22M	$220 \pm 20\%$	$0.26 \pm 7\%$	18	40
MHC7050-R31M	$310 \pm 20\%$	$0.26 \pm 7\%$	15	40

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

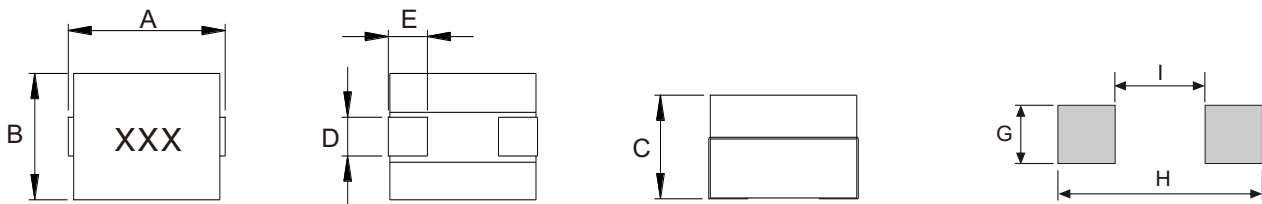
- 500PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC7070	7.0 ± 0.5	7.0 ± 0.5	7.0 ± 0.5	2.0 ± 0.2	1.8 ± 0.2	2.50	3.00	7.60

► Electrical Characteristics For MHC7070 Series

Part Number	Inductance [nH]	DCR [$\text{m}\Omega$]	$I_{sat}(\text{typ.})$ [A]	$I_{rms}(\text{typ.})$ [A]
MHC7070-R10M	$100 \pm 20\%$	$0.29 \pm 10\%$	60	35
MHC7070-R12M	$120 \pm 20\%$	$0.29 \pm 10\%$	48	35
MHC7070-R15M	$150 \pm 20\%$	$0.29 \pm 10\%$	42	35
MHC7070-R18M	$180 \pm 20\%$	$0.29 \pm 10\%$	60	35
MHC7070-R22M	$220 \pm 20\%$	$0.29 \pm 10\%$	25	35
MHC7070-R25M	$250 \pm 20\%$	$0.29 \pm 10\%$	22	35
MHC7070-R33M	$330 \pm 20\%$	$0.29 \pm 10\%$	12	35

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current



Features

- Soldered construction for low radiation
- High performance (Isat) with low noise

Package

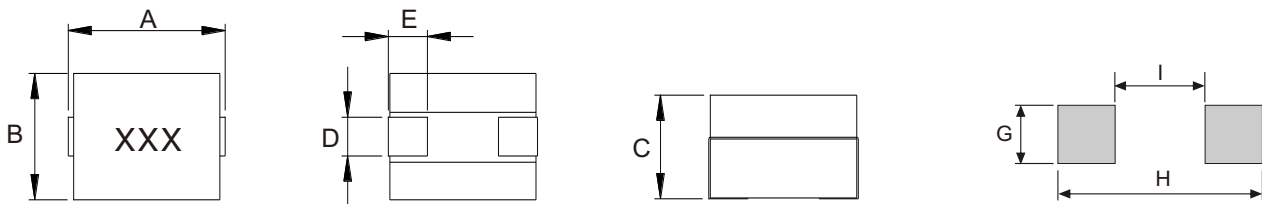
- 1000PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC1050	10.0 Max	7.0 Max	5.0 Max	2.7 ± 0.2	1.2 ± 0.2	3.50	5.50	10.50

► Electrical Characteristics For MHC1050 Series

Part Number	Inductance [nH]	DCR [mΩ]	1-Isat@25°C (typ.) [A]	2-Isat@100°C (typ.) [A]	Irms(typ.) [A]
MHC1050-R12M	120 ±20%	0.34 ±10%	52	45	40
MHC1050-R15M	150 ±20%	0.34 ±10%	45	33	40
MHC1050-R17M	170 ±20%	0.34 ±10%	40		40
MHC1050-R20M	200 ±20%	0.34 ±10%	35	25	40
MHC1050-R22M	220 ±20%	0.34 ±10%	30	26	40

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (Irms): Current that cause the temperature 40°C
- Saturation Current (Isat): DC current at which the inductance drops 20% from its value without current
- All test data is referenced to 25°C ambient. 2-Isat Saturation current test data is referenced to 100°C



Features

- Soldered construction for low radiation
- High performance (Isat) with low noise

Package

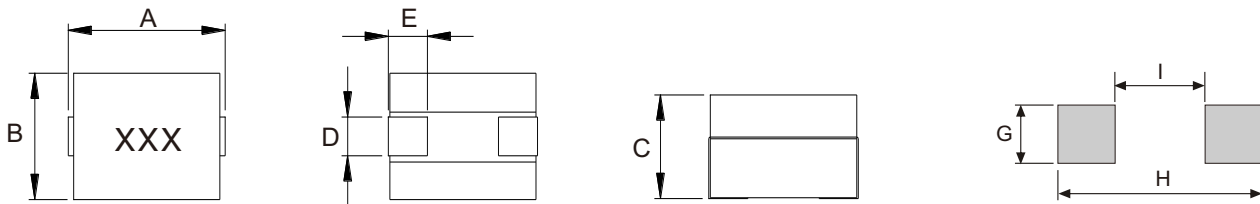
- 1000PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC100705-D32	10.2 Max	7.0 Max	5.0 ± 0.3	2.5 Ref	1.52 Ref	3.05	6.35	10.35
MHC100705-D29	10.2 Max	7.0 Max	5.0 ± 0.3	2.7 Ref	1.2 Ref	3.50	5.50	10.50

► Electrical Characteristics For MHC100705-D32 Series

Part Number	Inductance [nH]	DCR [mΩ]	1-Isat@25°C (typ.) [A]	2-Isat@100°C (typ.) [A]	Irms(typ.) [A]
MHC100705-72NL-D32	72 ±15%	0.325 ±7%	80	70	31
MHC100705-R10L-D32	100 ±15%	0.325 ±7%	70	60	31
MHC100705-R12L-D32	120 ±15%	0.325 ±7%	65	50	31
MHC100705-R15L-D32	150 ±15%	0.325 ±7%	45	35	31
MHC100705-R20L-D32	200 ±15%	0.325 ±7%	33	25	31
MHC100705-R22L-D32	220 ±15%	0.325 ±7%	30	24	31
MHC100705-R30L-D32	300 ±15%	0.325 ±7%	19	12	31

► Electrical Characteristics For MHC100705-D29 Series

Part Number	Inductance [nH]	DCR [mΩ]	Isat(typ.) [A]	Irms(typ.) [A]
MHC100705-R10L-D29	100 ±15%	0.29 ±7%	70	40
MHC100705-R12L-D29	120 ±15%	0.29 ±7%	52	40
MHC100705-R15L-D29	150 ±15%	0.29 ±7%	40	40
MHC100705-R20L-D29	200 ±15%	0.29 ±7%	28	40



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

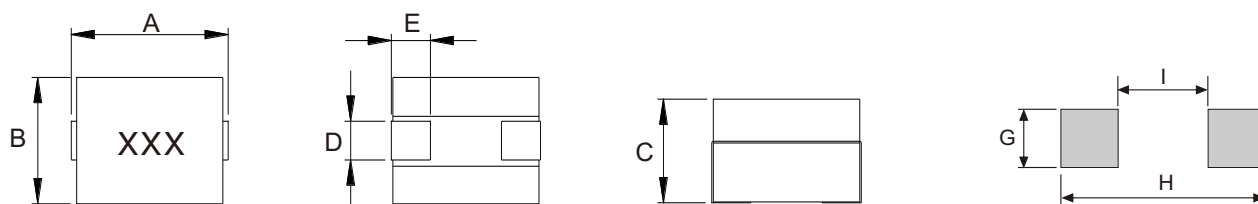
- 500PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC1070-D29	11.0 Max	7.5 Max	7.0 Max	1.7 ± 0.2	2.7 ± 0.5	2.60	4.00	11.20
MHC1070-D70	10.4 Max	7.4 Max	7.0 Max	1.7 Ref	2.5 Ref	2.60	4.00	11.20

► Electrical Characteristics For MHC1070-D29/D70 Series

Part Number	Inductance [nH]	DCR [mΩ]	$I_{sat}(typ.)$ [A]	$I_{rms}(typ.)$ [A]
MHC1070-R12L-D29	$120 \pm 15\%$	$0.29 \pm 5\%$	75	55
MHC1070-R15L-D29	$150 \pm 15\%$	$0.29 \pm 5\%$	65	55
MHC1070-R18L-D29	$180 \pm 15\%$	$0.29 \pm 5\%$	50	55
MHC1070-R20L-D29	$200 \pm 15\%$	$0.29 \pm 5\%$	45	55
MHC1070-R23L-D29	$230 \pm 15\%$	$0.29 \pm 5\%$	38	55
MHC1070-R30L-D29	$330 \pm 15\%$	$0.29 \pm 5\%$	30	55
MHC1070-R15L-D70	$150 \pm 15\%$	$0.70 \pm 7\%$	65	23
MHC1070-R30L-D70	$300 \pm 15\%$	$0.70 \pm 7\%$	30	23
MHC1070-R37L-D70	$370 \pm 15\%$	$0.70 \pm 7\%$	25	23

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

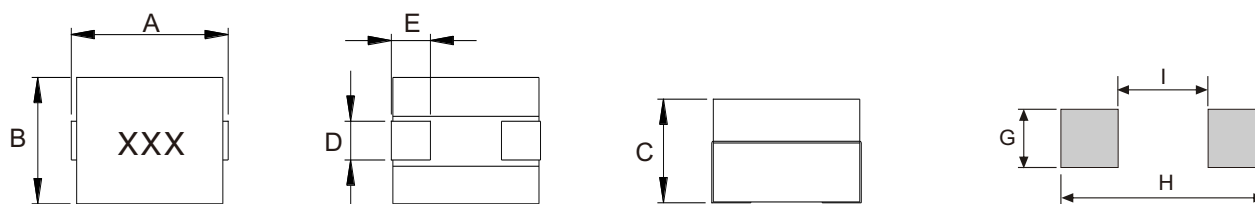
- 500PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC1070-D47	10.1 ± 0.5	7.0 ± 0.5	7.0 ± 0.5	1.6 ± 0.2	2.6 ± 0.3	2.60	4.00	11.20

► Electrical Characteristics For MHC1070-D47 Series

Part Number	Inductance [nH]	DCR [mΩ]	$I_{sat}(typ.)$ [A]	$I_{rms}(typ.)$ [A]
MHC1070-R10M-D47	$100 \pm 20\%$	$0.47 \pm 7\%$	60 Min	27
MHC1070-R12M-D47	$120 \pm 20\%$	$0.47 \pm 7\%$	60 Min	27
MHC1070-R15M-D47	$150 \pm 20\%$	$0.47 \pm 7\%$	58	27
MHC1070-R20M-D47	$200 \pm 20\%$	$0.47 \pm 7\%$	48	27
MHC1070-R25M-D47	$250 \pm 20\%$	$0.47 \pm 7\%$	44	27
MHC1070-R30M-D47	$300 \pm 20\%$	$0.47 \pm 7\%$	33	27
MHC1070-R33M-D47	$330 \pm 20\%$	$0.47 \pm 7\%$	30	27
MHC1070-R40M-D47	$400 \pm 20\%$	$0.47 \pm 7\%$	22	27

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

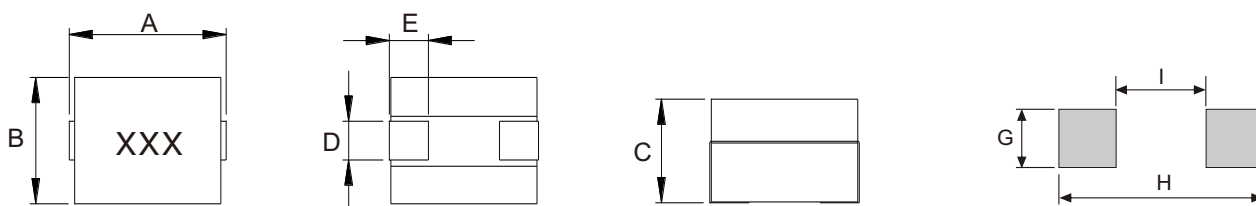
- 640PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC1075-D29	10.3 ± 0.5	7.0 ± 0.5	7.2 ± 0.5	1.7 ± 0.2	2.7 ± 0.5	2.00	4.00	11.00

► Electrical Characteristics For MHC1075-D29 Series

Part Number	Inductance [nH]	DCR [mΩ]	1-Isat@25°C (typ.) [A]	2-Isat@100°C (typ.) [A]	I _{rms} (typ.) [A]
MHC1075-R10K-D29	$100 \pm 10\%$	$0.29 \pm 5\%$	100	85	55
MHC1075-R12K-D29	$120 \pm 10\%$	$0.29 \pm 5\%$	90	72	55
MHC1075-R15L-D29	$150 \pm 15\%$	$0.29 \pm 5\%$	70	56	55
MHC1075-R17L-D29	$170 \pm 15\%$	$0.29 \pm 5\%$	66	54	55
MHC1075-R18L-D29	$180 \pm 15\%$	$0.29 \pm 5\%$	63	52	55
MHC1075-R20L-D29	$200 \pm 15\%$	$0.29 \pm 5\%$	50	42	55
MHC1075-R22L-D29	$220 \pm 15\%$	$0.29 \pm 5\%$	46	37	55
MHC1075-R30M-D29	$300 \pm 20\%$	$0.29 \pm 5\%$	35	28	55
MHC1075-R40M-D29	$400 \pm 20\%$	$0.29 \pm 5\%$	25	20	55
MHC1075-R51M-D29	$510 \pm 20\%$	$0.29 \pm 5\%$	18	14.5	55

- Inductance tested at 100kHz, 1V_{rms}
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current
- All test data is referenced to 25°C ambient. 2-Isat Saturation current test data is referenced to 100°C



Features

- Soldered construction for low radiation
- High performance (Isat) with low noise

Package

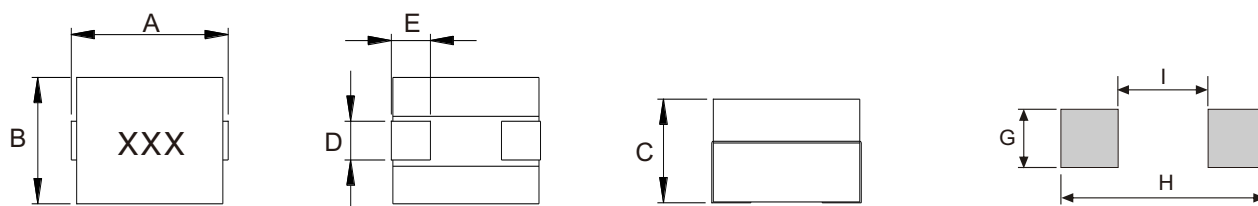
- 640PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC1075-D47	11.0 Max	7.0 ± 0.5	7.0 ± 0.5	1.6 ± 0.3	2.6 ± 0.5	2.60	4.00	11.20

► Electrical Characteristics For MHC1075-D47 Series

Part Number	Inductance [nH]	DCR [mΩ]	1-Isat@25°C (typ.) [A]	2-Isat@100°C (typ.) [A]	Irms(typ.) [A]
MHC1075-R12K-D47	120 ±10%	0.47 ±10%	90	72	40
MHC1075-R15L-D47	150 ±15%	0.47 ±10%	70	56	40
MHC1075-R20L-D47	200 ±15%	0.47 ±10%	50	44	40
MHC1075-R22L-D47	220 ±15%	0.47 ±10%	47	41	40
MHC1075-R23L-D47	230 ±15%	0.47 ±10%	45	36	40
MHC1075-R30L-D47	300 ±15%	0.47 ±10%	35	28	40
MHC1075-R40M-D47	400 ±20%	0.47 ±10%	25	20	40
MHC1075-R51M-D47	510 ±20%	0.47 ±10%	18	14.5	40

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (Irms): Current that cause the temperature 40°C
- Saturation Current (Isat): DC current at which the inductance drops 20% from its value without current
- All test data is referenced to 25°C ambient. 2-Isat Saturation current test data is referenced to 100°C



Features

- Soldered construction for low radiation
- High performance (Isat) with low noise

Package

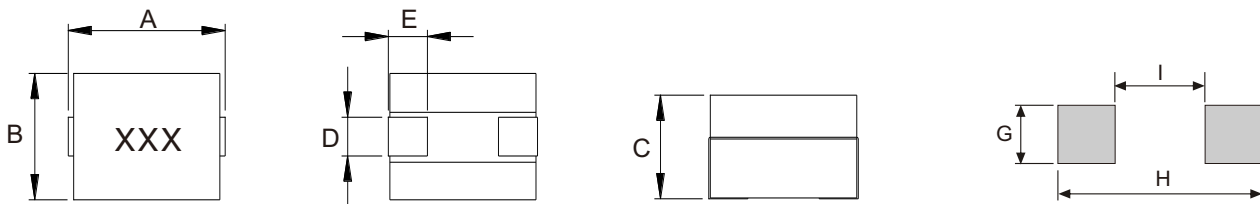
- 640PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC100707	11.0 Max	7.5 Max	7.0 Max	1.6 ± 0.2	2.6 ± 0.5	2.00	4.30	11.00

► Electrical Characteristics For MHC100707 Series

Part Number	Inductance [nH]	DCR [mΩ]	1-Isat@25°C (typ.) [A]	2-Isat@125°C (typ.) [A]	Irms(typ.) [A]
MHC100707-R12L	120 ±15%	0.37 ±7%	85	70	37
MHC100707-R15L	150 ±15%	0.37 ±7%	75	60	37
MHC100707-R18L	180 ±15%	0.37 ±7%	50	40	37
MHC100707-R22L	220 ±15%	0.37 ±7%	40	35	37
MHC100707-R25L	250 ±15%	0.37 ±7%	35	28	37

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (Irms): Current that cause the temperature 40°C
- Saturation Current (Isat): DC current at which the inductance drops 20% from its value without current
- All test data is referenced to 25°C ambient. 2-Isat Saturation current test data is referenced to 100°C



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

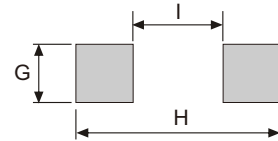
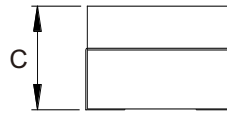
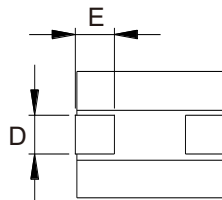
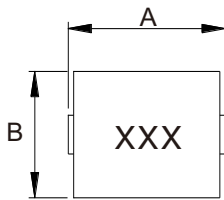
- 800PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC100865	10.41 Max	8.0 Max	6.5 Max	2.3 ± 0.2	2.54 ± 0.3	2.79	4.32	10.42

► Electrical Characteristics For MHC100865 Series

Part Number	Inductance [nH]	DCR [$\text{m}\Omega$]	$I_{sat}(\text{typ.})$ [A]	$I_{rms}(\text{typ.})$ [A]
MHC100865-R12L	$120 \pm 15\%$	$0.48 \pm 8\%$	74	40
MHC100865-R14L	$140 \pm 15\%$	$0.48 \pm 8\%$	66	40
MHC100865-R15L	$150 \pm 15\%$	$0.48 \pm 8\%$	63	40
MHC100865-R17L	$170 \pm 15\%$	$0.48 \pm 8\%$	55	40
MHC100865-R22L	$220 \pm 15\%$	$0.48 \pm 8\%$	43	40
MHC100865-R30L	$300 \pm 15\%$	$0.48 \pm 8\%$	30	40

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

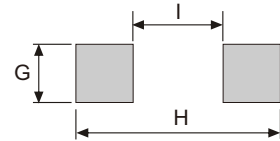
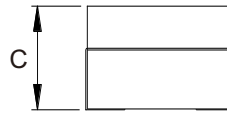
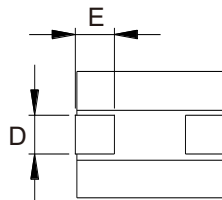
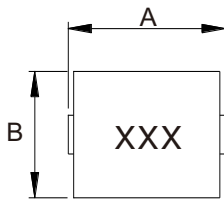
- 700PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC101005	10.0 ± 0.5	9.7 ± 0.5	5.0 ± 0.5	2.5 ± 0.2	2.0 ± 0.2	3.00	5.80	10.70

► Electrical Characteristics For MHC101005 Series

Part Number	Inductance [nH]	DCR [$\text{m}\Omega$]	$I_{sat}(\text{typ.})$ [A]	$I_{rms}(\text{typ.})$ [A]
MHC101005-R20M	$200 \pm 20\%$	$0.26 \pm 7\%$	36	26
MHC101005-R25M	$250 \pm 20\%$	$0.26 \pm 7\%$	32	26
MHC101005-R30M	$300 \pm 20\%$	$0.26 \pm 7\%$	24	26
MHC101005-R36M	$360 \pm 20\%$	$0.26 \pm 7\%$	16	26

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

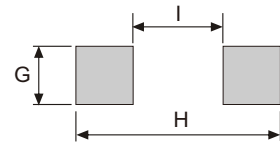
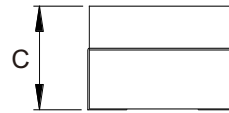
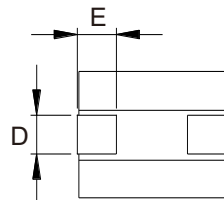
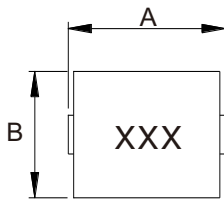
- 500PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC110707	10.2 Max	7.6 Max	7.2 Max	1.9 ± 0.2	3.2 ± 0.5	2.50	4.50	12.00

► Electrical Characteristics For MHC110707 Series

Part Number	Inductance [nH]	DCR [$\text{m}\Omega$]	1- I_{sat} @ 25°C (typ.) [A]	2- I_{sat} @ 125°C (typ.) [A]	I_{rms} (typ.) [A]
MHC110707-R15L	$150 \pm 15\%$	$0.29 \pm 7\%$	65	50	44
MHC110707-R18L	$180 \pm 15\%$	$0.29 \pm 7\%$	58	40	44
MHC110707-R22L	$220 \pm 15\%$	$0.29 \pm 7\%$	45	35	44
MHC110707-R30L	$300 \pm 15\%$	$0.29 \pm 7\%$	30	23	44
MHC110707-R40L	$400 \pm 15\%$	$0.29 \pm 7\%$	23	16	44
MHC110707-R50M	$500 \pm 20\%$	$0.29 \pm 7\%$	15	10	44

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current
- All test data is referenced to 25°C ambient. 2- I_{sat} Saturation current test data is referenced to 125°C



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

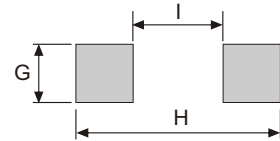
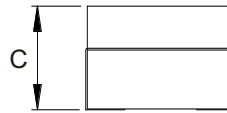
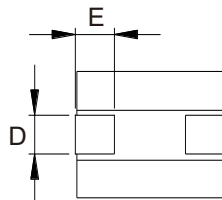
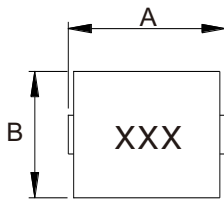
- 450PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC110709	9.8 ± 0.5	7.5 ± 0.5	9.0 Max	2.0 ± 0.2	3.3 ± 0.5	2.30	4.50	11.60

► Electrical Characteristics For MHC110709 Series

Part Number	Inductance [nH]	DCR [mΩ]	$I_{sat}(typ.)$ [A]	$I_{rms}(typ.)$ [A]
MHC110709-R15L	$150 \pm 15\%$	$0.29 \pm 7\%$	75	44
MHC110709-R21L	$210 \pm 15\%$	$0.29 \pm 7\%$	57	44
MHC110709-R28L	$280 \pm 15\%$	$0.29 \pm 7\%$	40	44
MHC110709-R29M	$290 \pm 15\%$	$0.29 \pm 7\%$	36	44
MHC110709-R36M	$360 \pm 15\%$	$0.29 \pm 7\%$	30	44
MHC110709-R39M	$390 \pm 15\%$	$0.29 \pm 7\%$	24	44
MHC110709-R40M	$400 \pm 15\%$	$0.29 \pm 7\%$	20	44

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current



Features

- Soldered construction for low radiation
- High performance (Isat) with low noise

Package

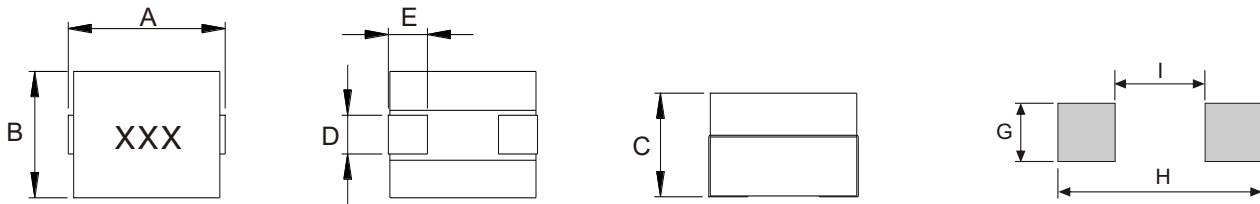
- 300PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC1190	11.3 ± 0.5	11.0 ± 0.5	9.0 ± 0.5	2.2 ± 0.2	3.2 ± 0.5	2.70	4.20	12.10

► Electrical Characteristics For MHC1190 Series

Part Number	Inductance [nH]	DCR [mΩ]	1-Isat@25°C (typ.) [A]	2-Isat@125°C (typ.) [A]	I _{rms} (typ.) [A]
MHC1190-R15L	150 ±15%	0.30 ± 7%	80		40
MHC1190-R23M	230 ±20%	0.30 ± 7%	60	50	40
MHC1190-R25M	250 ±20%	0.30 ± 7%	60	45	40
MHC1190-R30M	300 ±20%	0.30 ± 7%	50	43	40
MHC1190-R32M	320 ±20%	0.30 ± 7%	45	38	40
MHC1190-R38M	380 ±20%	0.30 ± 7%	40	30	40
MHC1190-R46M	460 ±20%	0.30 ± 7%	32	22	40
MHC1190-R54M	540 ±20%	0.30 ± 7%	26	18	40

- Inductance tested at 100kHz, 1V_{rms}
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C
- Saturation Current (Isat): DC current at which the inductance drops 20% from its value without current
- All test data is referenced to 25°C ambient. 2-Isat Saturation current test data is referenced to 100°C



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

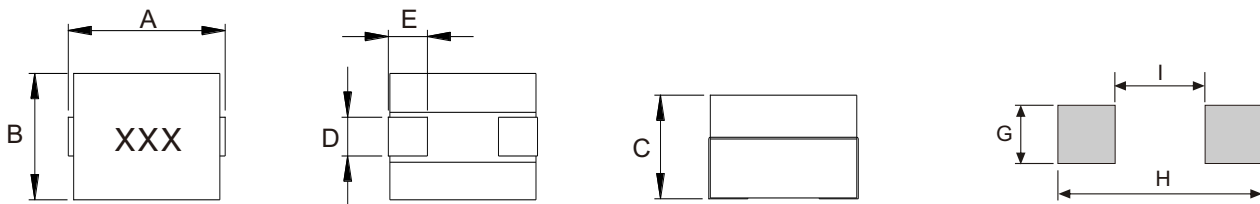
- 1200PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC130704	13.3 ± 0.5	7.5 ± 0.5	4.2 Max	4.1 typ	2.5 typ	4.60	7.80	13.50

► Electrical Characteristics For MHC130704 Series

Part Number	Inductance [nH]	DCR [$\text{m}\Omega$]	$I_{sat}(\text{typ.})$ [A]	$I_{rms}(\text{typ.})$ [A]
MHC130704-R10M	$100 \pm 20\%$	$0.225 \pm 10\%$	60	45
MHC130704-R12M	$120 \pm 20\%$	$0.225 \pm 10\%$	53	45
MHC130704-R15M	$150 \pm 20\%$	$0.225 \pm 10\%$	40	45
MHC130704-R22M	$220 \pm 20\%$	$0.225 \pm 10\%$	30	45
MHC130704-R30M	$300 \pm 20\%$	$0.225 \pm 10\%$	18	45
MHC130704-R47M	$470 \pm 20\%$	$0.225 \pm 10\%$	12	45

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

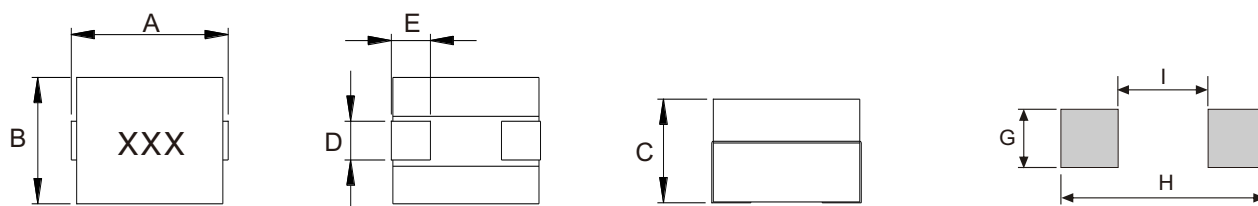
- 500PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC1350	13.5 Max	13.2 Max	5.0 ± 0.5	5.0 ± 0.2	2.0 ± 0.2	5.40	8.00	13.80

► Electrical Characteristics For MHC1350 Series

Part Number	Inductance [nH]	DCR [mΩ]	$I_{sat}@25^{\circ}\text{C}$ (typ.) [A]	$I_{sat}@125^{\circ}\text{C}$ (typ.) [A]	$I_{rms}(\text{typ.})$ [A]
MHC1350-R10M	$100 \pm 20\%$	$0.155 \pm 10\%$	70		50
MHC1350-R22M	$220 \pm 20\%$	$0.155 \pm 10\%$	40	35	50
MHC1350-R28M	$280 \pm 20\%$	$0.155 \pm 10\%$	30	18	50
MHC1350-R31M	$310 \pm 20\%$	$0.155 \pm 10\%$	24	15	50
MHC1350-R40M	$400 \pm 20\%$	$0.155 \pm 10\%$	18	13	50
MHC1350-R52M	$520 \pm 20\%$	$0.155 \pm 10\%$	13	9	50

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current
- All test data is referenced to 25°C ambient. 2- I_{sat} Saturation current test data is referenced to 125°C



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

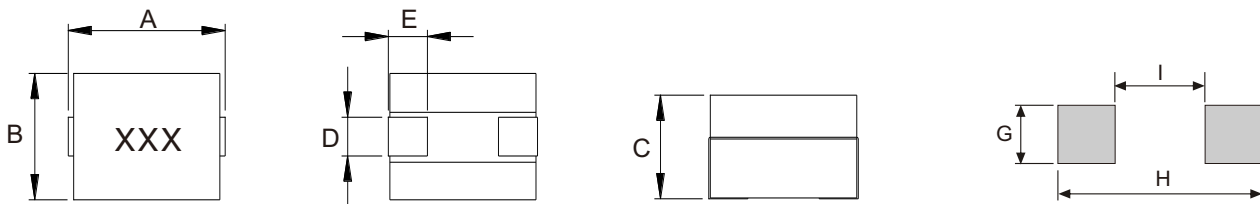
- 450PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC1380	13.46 Max	12.95 Max	8.5/8.0 Max	5.0 ± 0.3	2.54 ± 0.3	7.62	7.11	13.47

► Electrical Characteristics For MHC1380 Series

Part Number	Inductance [nH]	DCR [$m\Omega$]	$I_{sat}@25^{\circ}\text{C}$ (typ.) [A]	$I_{sat}@125^{\circ}\text{C}$ (typ.) [A]	I_{rms} (typ.) [A]	C [mm]
MHC1380-R11K	$110 \pm 10\%$	$0.32 \pm 9.4\%$	120	105	45	8.5
MHC1380-R21L	$210 \pm 15\%$	$0.32 \pm 9.4\%$	70	55	45	8.3
MHC1380-R26L	$260 \pm 15\%$	$0.32 \pm 9.4\%$	60	45	45	8.2
MHC1380-R32L	$320 \pm 15\%$	$0.32 \pm 9.4\%$	50	35	45	8.0
MHC1380-R44L	$440 \pm 15\%$	$0.32 \pm 9.4\%$	35	25	45	8.0
MHC1380-R50L	$500 \pm 15\%$	$0.32 \pm 9.4\%$	28	23	45	8.0

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current
- All test data is referenced to 25°C ambient. 2- I_{sat} Saturation current test data is referenced to 125°C



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

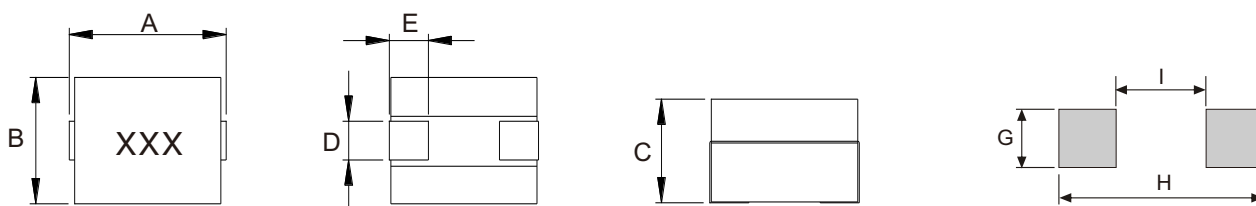
- 300PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC1390	14.0 ± 0.5	12.8 ± 0.5	9.0 ± 0.5	3.0 ± 0.2	2.3 ± 0.5	3.50	9.00	14.50

► Electrical Characteristics For MHC1390 Series

Part Number	Inductance [nH]	DCR [mΩ]	$I_{sat}@25^{\circ}\text{C}$ (typ.) [A]	$I_{sat}@125^{\circ}\text{C}$ (typ.) [A]	$I_{rms}(\text{typ.})$ [A]
MHC1390-R23M	$230 \pm 20\%$	$0.30 \pm 7\%$	60 min		45
MHC1390-R30M	$300 \pm 20\%$	$0.30 \pm 7\%$	60 min		45
MHC1390-R32M	$320 \pm 20\%$	$0.30 \pm 7\%$	60	48	45
MHC1390-R45M	$450 \pm 20\%$	$0.30 \pm 7\%$	43	32	45

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current
- All test data is referenced to 25°C ambient. 2- I_{sat} Saturation current test data is referenced to 125°C



Features

- Soldered construction for low radiation
- High performance (I_{sat}) with low noise

Package

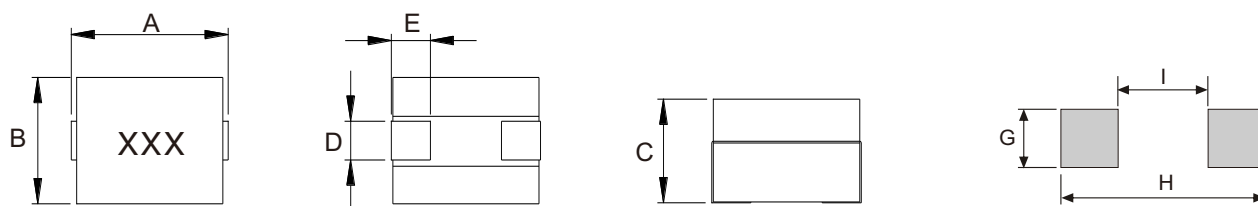
- 800PCS/Reel

General Specifications

- Storage temp range: -40°C to $+125^{\circ}\text{C}$
- Operating temp range: -40°C to $+125^{\circ}\text{C}$
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	G	I	H
MHC150705	14.7 ± 0.3	6.7 ± 0.3	5.0 Max	2.8 Ref	2.0 Ref	4.50	10.00	2.50

► Electrical Characteristics For MHC150705 Series

Part Number	Inductance [nH]	DCR [mΩ]	$I_{sat}@25^{\circ}\text{C}$ (typ.) [A]	$I_{sat}@125^{\circ}\text{C}$ (typ.) [A]	I_{rms} (typ.) [A]
MHC150705-R10L	$100 \pm 15\%$	$0.47 \pm 7\%$	105	80	53
MHC150705-R12L	$120 \pm 15\%$	$0.47 \pm 7\%$	87	75	53
MHC150705-R15L	$150 \pm 15\%$	$0.47 \pm 7\%$	72	60	53

- Inductance tested at 100kHz, 1Vrms
- Heat Rating Current (I_{rms}): Current that cause the temperature 40°C
- Saturation Current (I_{sat}): DC current at which the inductance drops 20% from its value without current
- All test data is referenced to 25°C ambient. 2- I_{sat} Saturation current test data is referenced to 125°C



Features

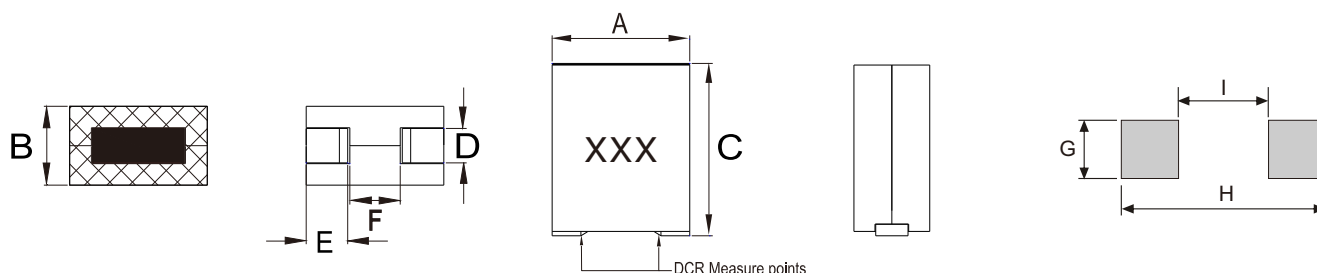
- Soldered construction for low radiation
- High rated current
- Low DCR

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F	G	I	H
MHE080812	7.6 Max	8.1 Max	12.0 Max	4.4 Ref	2.0 Ref	3.1 Ref	5.0	3.1	8.0

► Electrical Characteristics For MHE080812 Series

Part Number	Inductance [nH]	DCR [mΩ]	Isat@25°C (typ.) [A]	Isat@100°C (typ.) [A]	Irms(typ.) [A]
MHE080812-R15M	150 ±20%	0.155 ±20%	86	73	75
MHE080812-R22M	220 ±20%	0.155 ±20%	45	38	75
MHE080812-R32M	320 ±20%	0.155 ±20%	37	31	75
MHE080812-R36M	360 ±20%	0.155 ±20%	32	27	75



Features

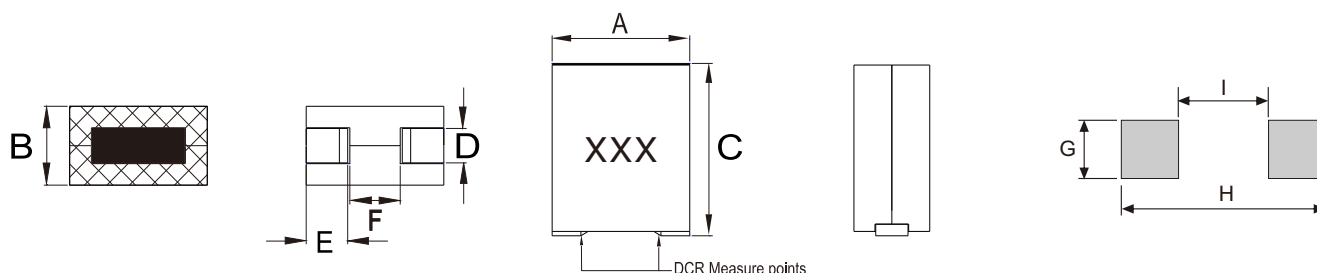
- Soldered construction for low radiation
- High rated current
- Low DCR

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F	G	I	H
MHE095210	9.0 Max	5.2 Max	9.7 Max	2.4 ± 0.2	2.5 ± 0.5	4.0 Ref	2.9	3.9	10.2

► Electrical Characteristics For MHE095210 Series

Part Number	Inductance [nH]	DCR [mΩ]	Isat@25°C (typ.) [A]	Isat@100°C (typ.) [A]	Irms(typ.) [A]
MHE095210-R10L	100 ±15%	0.125 ±10%	80	70	63 Max
MHE095210-R12L	120 ±15%	0.125 ±10%	72	64	63 Max
MHE095210-R15L	150 ±15%	0.125 ±10%	61	51	63 Max
MHE095210-R33L	330 ±15%	0.125 ±10%	23	19	63 Max



Features

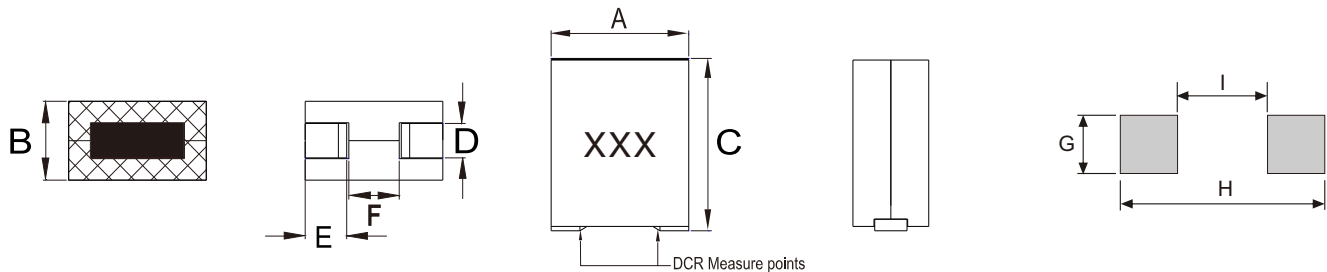
- Soldered construction for low radiation
- High rated current
- Low DCR

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F	G	I	H
MHE966410	9.6 Max	6.4/6.6Max	10 Max	2.4Ref	3.15 Ref	3.85 Ref	2.6	3.5	10.3

► Electrical Characteristics For MHE966410 Series

Part Number	Inductance [nH]	DCR [mΩ]	Isat@25°C (typ.) [A]	Isat@100°C (typ.) [A]	Irms(typ.) [A]
MHE966410-R07L	70 ±15%	0.125 ±10%	110	95	80
MHE966410-R10L	100 ±15%	0.125 ±10%	100	89	80
MHE966410-R12L	120 ±15%	0.125 ±10%	90	80	80
MHE966410-R15L	150 ±15%	0.125 ±10%	80	70	80



Features

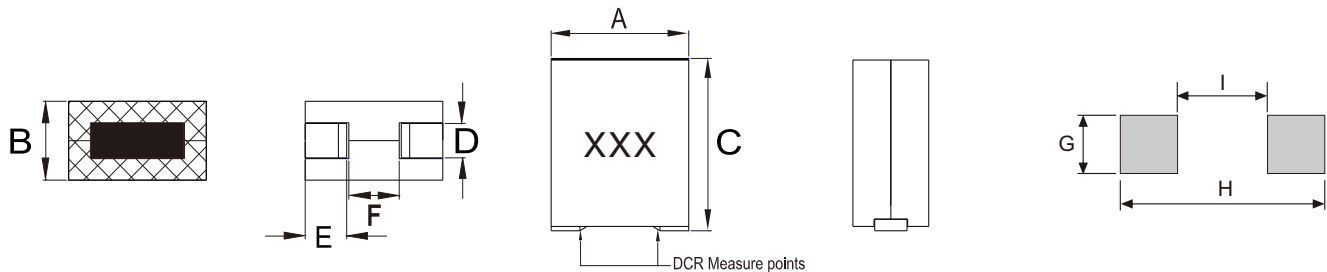
- Soldered construction for low radiation
- High rated current
- Low DCR

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F	G	I	H
MHE966509	9.6 Max	6.7/6.5Max	9.0 Max	2.6 ± 0.3	2.5 ± 0.5	3.8 Ref	3.1	3.5	10.0

► Electrical Characteristics For MHE966509 Series

Part Number	Inductance [nH]	DCR [mΩ]	Isat@25°C (typ.) [A]	Isat@100°C (typ.) [A]	Irms(typ.) [A]
MHE966509-65NL	65 ±15%	0.170 ±5%	120	110	66
MHE966509-75NL	75 ±15%	0.170 ±5%	120	110	66
MHE966509-R09L	90 ±15%	0.170 ±5%	110	100	66
MHE966509-R10L	100 ±15%	0.170 ±5%	110	100	66
MHE966509-R12L	120 ±15%	0.170 ±5%	94	80	66
MHE966509-R15L	150 ±15%	0.170 ±5%	75	60	66
MHE966509-R17L	170 ±15%	0.170 ±5%	65	55	66
MHE966509-R18L	180 ±15%	0.170 ±5%	65	55	66
MHE966509-R21L	210 ±15%	0.170 ±5%	48	35	66
MHE966509-R22L	220 ±15%	0.170 ±5%	47	35	66
MHE966509-R30L	300 ±15%	0.170 ±5%	33	20	66



Features

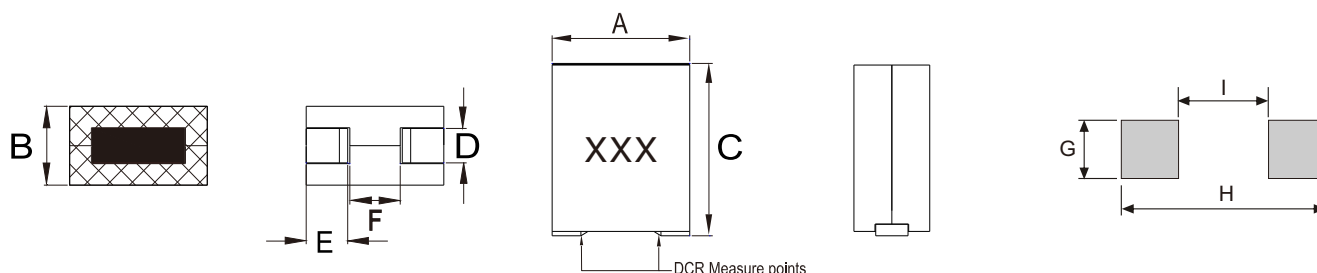
- Soldered construction for low radiation
- High rated current
- Low DCR

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F	G	I	H
MHE100612	10.0max	6.2/6.0max	12.1max	2.4±0.3	3.3±0.4	3.3ref	3.3	3.9	10.3

► Electrical Characteristics For MHE100612 Series

Part Number	Inductance [nH]	DCR [mΩ]	Isat@25°C (typ.) [A]	Isat@100°C (typ.) [A]	Irms(typ.) [A]
MHE100612-R07K	70 ±10%	0.125 ±10%	170(typ)	155(typ)	84(typ)
MHE100612-R08K	80 ±10%	0.125 ±10%	150(typ)	130(typ)	84(typ)
MHE100612-R09K	90 ±10%	0.125 ±10%	131(typ)	110(typ)	84(typ)
MHE100612-R10K	100 ±10%	0.125 ±10%	125(typ)	105(typ)	84(typ)
MHE100612-R12K	120 ±10%	0.125 ±10%	105(typ)	88(typ)	84(typ)
MHE100612-R15K	150 ±10%	0.125 ±10%	88(typ)	83(typ)	84(typ)
MHE100612-R22L	220 ±15%	0.125 ±10%	60(typ)	50(typ)	84(typ)
MHE100612-R30L	300 ±15%	0.125 ±10%	41(typ)	35(typ)	84(typ)
MHE100612-R33L	330 ±15%	0.125 ±10%	40(typ)	32(typ)	84(typ)
MHE100612-R47M	470 ±20%	0.125 ±10%	27(typ)	22(typ)	84(typ)
MHE100612-R58M	580 ±20%	0.125 ±10%	18(typ)	15(typ)	84(typ)



Features

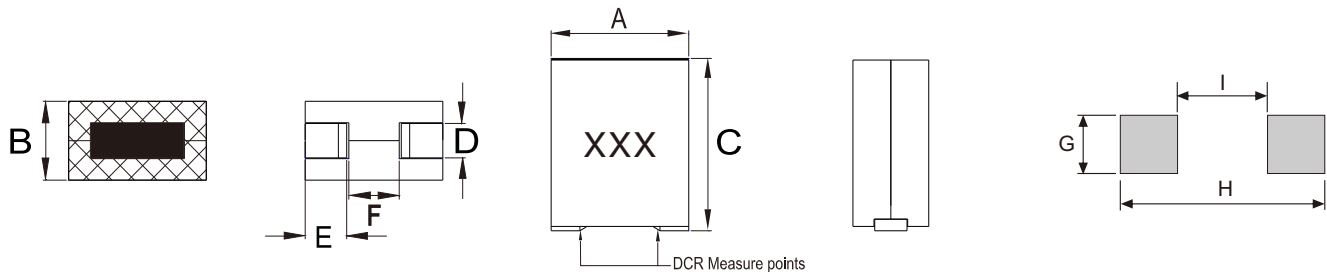
- Soldered construction for low radiation
- High rated current
- Low DCR

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F	G	I	H
MHE100709	10.0 Max	7.0 Max	9.0 Max	2.5 ± 0.3	2.5 ± 0.5	4.0 Ref	3.0	3.7	11.0

► Electrical Characteristics For MHE100709 Series

Part Number	Inductance [nH]	DCR [mΩ]	Isat@25°C (typ.) [A]	Isat@100°C (typ.) [A]	Irms(typ.) [A]
MHE100709-R10L	100 ±15%	0.18 ±10%	105	90	70
MHE100709-R12L	120 ±15%	0.18 ±10%	80	70	70
MHE100709-R15L	150 ±15%	0.18 ±10%	70	60	70
MHE100709-R18L	180 ±15%	0.18 ±10%	60	50	70
MHE100709-R22L	220 ±15%	0.18 ±10%	55	45	70
MHE100709-R32M	320 ±20%	0.18 ±10%	35	30	70
MHE100709-R40M	400 ±20%	0.18 ±10%	25	20	70



Features

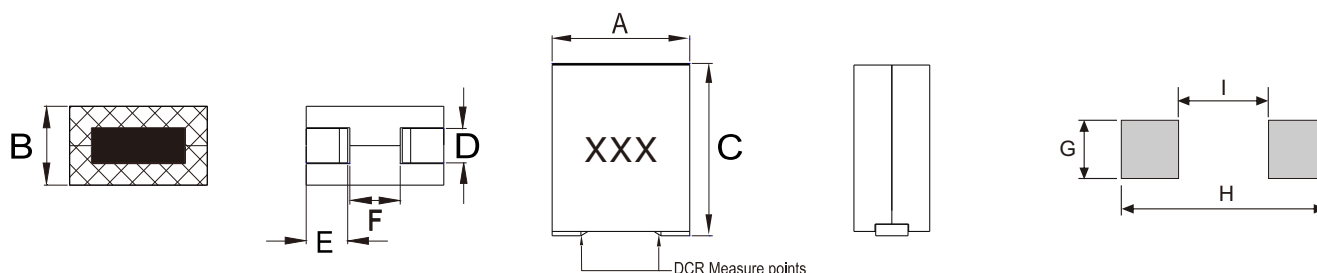
- Soldered construction for low radiation
- High rated current
- Low DCR

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F	G	I	H
MHE100710	10.0 Max	7.0 Max	10.0 Max	2.4 ± 0.25	2.5 ± 0.5	4.4 Ref	3.0	3.9	11.0

► Electrical Characteristics For MHE100710 Series

Part Number	Inductance [nH]	DCR [mΩ]	Isat@25°C (typ.) [A]	Isat@100°C (typ.) [A]	Irms(typ.) [A]
MHE100710-R10L	100 ±15%	0.18 ±10%	117	100	70
MHE100710-R12L	120 ±15%	0.18 ±10%	90	80	70
MHE100710-R15L	150 ±15%	0.18 ±10%	75+	75	70
MHE100710-R18L	180 ±15%	0.18 ±10%	75	65	70
MHE100710-R22L	220 ±15%	0.18 ±10%	60	50	70
MHE100710-R30M	300 ±20%	0.18 ±10%	43	33	70
MHE100710-R33M	330 ±20%	0.18 ±10%	35	30	70
MHE100710-R47M	470 ±20%	0.18 ±10%	20	15	70



Features

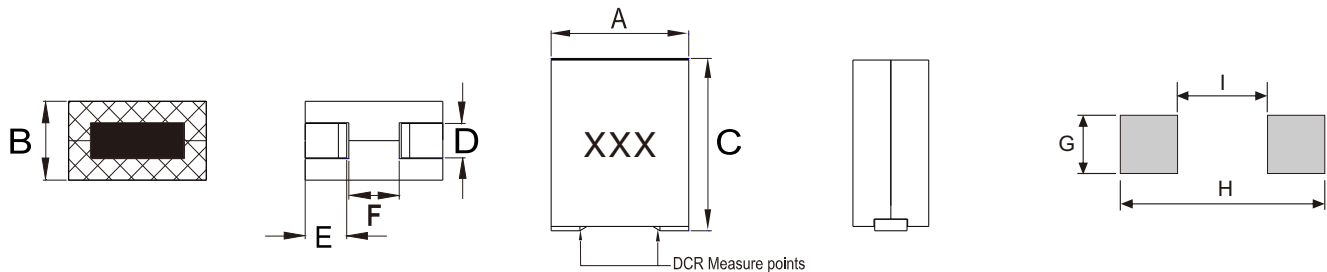
- Soldered construction for low radiation
- High rated current
- Low DCR

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D	E	F	G	I	H
MHE100712	10.7 Max	7.5 Max	12.0 Max	3.1 ± 0.3	2.8 ± 0.4	4.4 ± 0.5	3.6	3.7	11.0

► Electrical Characteristics For MHE100712 Series

Part Number	Inductance [nH]	DCR [mΩ]	Isat@25°C (typ.) [A]	Isat@100°C (typ.) [A]	Irms(typ.) [A]
MHE100712-R12L	120.0	0.150 ±10%	120	105	62
MHE100712-R15L	150.0	0.150 ±10%	100	80	62
MHE100712-R18L	180.0	0.150 ±10%	80	70	62
MHE100712-R22L	220.0	0.150 ±10%	75	64	62
MHE100712-R25L	250.0	0.150 ±10%	66	56	62
MHE100712-R27L	270.0	0.150 ±10%	60	51	62
MHE100712-R32M	320.0	0.150 ±10%	51	43	62
MHE100712-R40M	400.0	0.150 ±10%	41	35	62
MHE100712-R47M	470.0	0.150 ±10%	34	29	62
MHE100712-R60M	600.0	0.150 ±10%	24.5	21	62



Features

- Ferrite core material
- Dual winding
- Low DCR

Applications

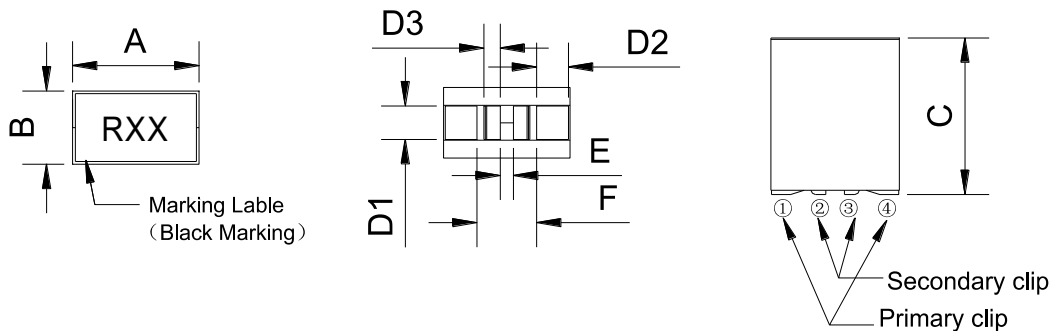
- Multi-phase and Vcore regulators
- Server and desktop, CPU, GPU
- Data networking and storage systems

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

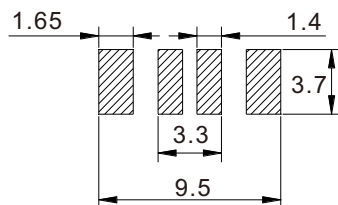


Dimensions & Configurations (Unit:mm)

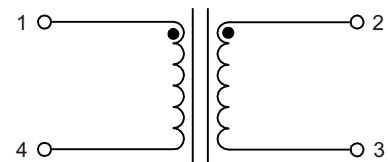


Type	A	B	C	D1	D2	D3	E	F
MLR966411	9.6 max	6.4 max	10.5 max	3.2 ± 0.3	2.1 ± 0.3	1.1 ± 0.3	1.8 typ	4.8 typ

Recommended Pad Layout



Schematic



Electrical Characteristics @25°C, 100kHz, 1V

Part Number	L [nH] 1-4/2-3	Li [nH] 1-4	DCR [mΩ] ±10%		Isat [A]			Irms [A]	
			1-4	2-3	25°C	100°C	125°C	1-4	2-3
MLR966411-R10L	100 ±15%	64	0.125	0.33	98	83	78	75	40
MLR966411-R12L	120 ±15%	77	0.125	0.33	79	67	63	75	40
MLR966411-R15L	150 ±15%	96	0.125	0.33	62	53	49	75	40
MLR966411-R18L	180 ±15%	115	0.125	0.33	54	46	43	75	40
MLR966411-R22L	220 ±15%	140	0.125	0.33	50	-	-	75	40

- Isat is the DC current which causes the inductance drop to Li.
- Irms is the DC current which causes the surface temperature of the part increase approximately 40°C



Features

- Ferrite core material
- Dual winding
- Low DCR

Applications

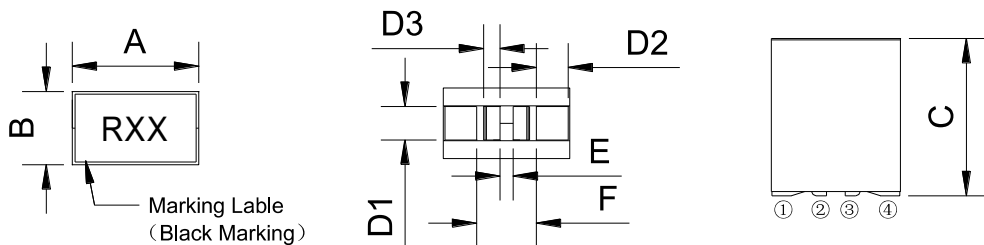
- Multi-phase and Vcore regulators
- Server and desktop, CPU, GPU
- Data networking and storage systems

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



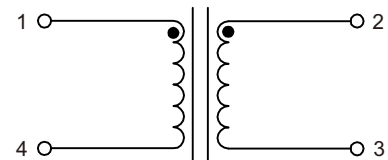
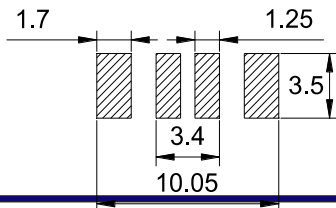
► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D1	D2	D3	E	F
MLR100612	10.0 Max	6.0 Max	12.0 Max	3.0 ± 0.5	2.2 ± 0.5	1.1 typ	1.5 typ	5.5 typ

► Recommended Pad Layout

► Schematic



► Electrical Characteristics @25°C, 100kHz, 1V

Part Number	L [nH] 1-4/2-3	Li [nH] 1-4	DCR [mΩ] ±10%		Isat [A]			Irms [A]	
			1-4	2-3	25°C	100°C	125°C	1-4	2-3
MLR100612-R07L	70 ±15%	50.0	0.125	0.45	127	110	100	75	43
MLR100612-R08L	80 ±15%	57.0	0.125	0.45	111	96	87	75	43
MLR100612-R09L	90 ±15%	64.0	0.125	0.45	98	85	77	75	43
MLR100612-R10L	100 ±15%	72.0	0.125	0.45	89	77	70	75	43
MLR100612-R12L	120 ±15%	86.0	0.125	0.45	74	64	64	75	43
MLR100612-R15L	150 ±15%	108.0	0.125	0.45	59	51	51	75	43
MLR100612-R17L	170 ±15%	108.0	0.125	0.45	52	45	45	75	43

- Isat is the DC current which causes the inductance drop to Li.
- Irms is the DC current which causes the surface temperature of the part increase approximately 40°C



Features

- Ferrite core material
- Dual winding
- Low DCR

Applications

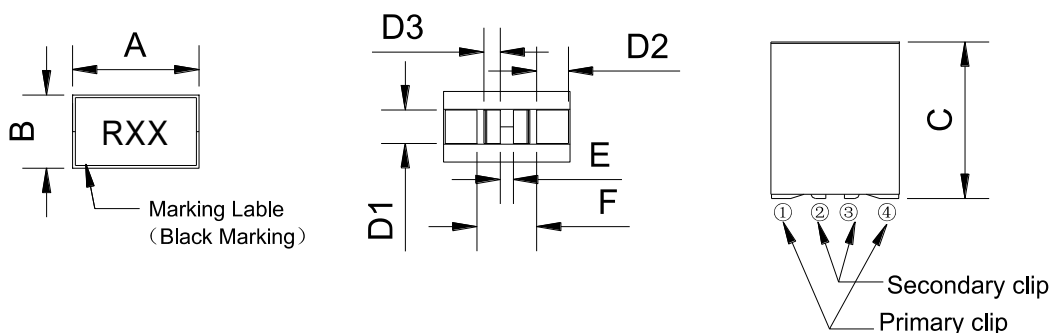
- Multi-phase and Vcore regulators
- Server and desktop, CPU, GPU
- Data networking and storage systems

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

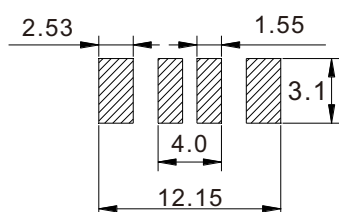


► Dimensions & Configurations (Unit:mm)

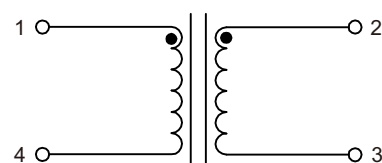


Type	A	B	C	D1	D2	D3	E	F
MLR120612	12.0 Max	6.0 Max	12.0 Max	2.5 ± 0.5	3.1 ± 0.5	1.1 typ	1.4 typ	5.3 typ

► Recommended Pad Layout



► Schematic



► Electrical Characteristics @25°C, 100kHz, 1V

Part Number	Inductance [nH] 1-4/2-3	Tolerance	DCR [mΩ] ±10%		Isat [A]		Irms [A]	
			1-4	2-3	25°C	100°C	1-4	2-3
MLR120612-R10L	100.0	±15%	0.125	0.45	125	105	70	40
MLR120612-R12L	120.0	±15%	0.125	0.45	100	90	70	40
MLR120612-R15L	150.0	±15%	0.125	0.45	80	70	70	40
MLR120612-R17L	170.0	±15%	0.125	0.45	70	55	70	40

- Isat is the DC current which causes the inductance drop to Li.
- Irms is the DC current which causes the surface temperature of the part increase approximately 40°C



Features

- Ferrite core material
- Dual winding
- Low DCR

Applications

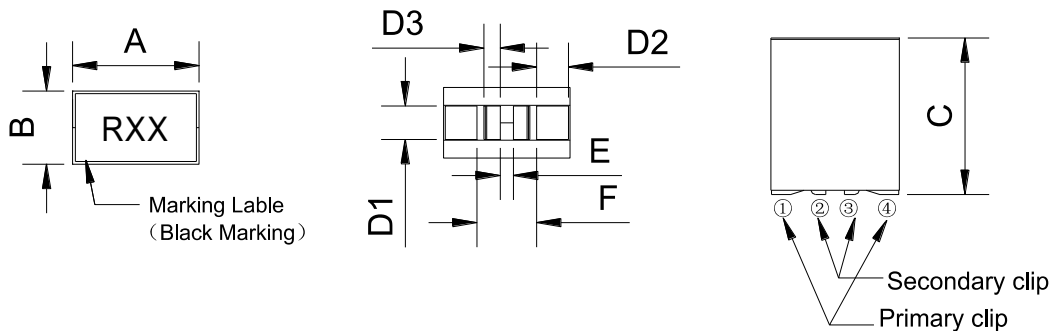
- Multi-phase and Vcore regulators
- Server and desktop, CPU, GPU
- Data networking and storage systems

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



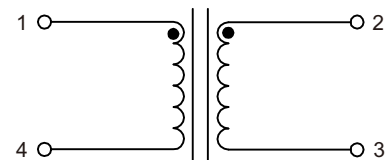
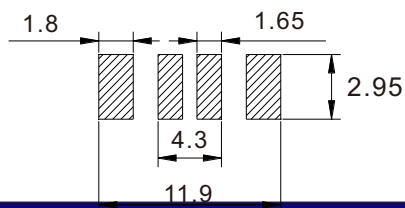
Dimensions & Configurations (Unit:mm)



Type	A	B	C	D1	D2	D3	E	F
MLR110611	11.7 ± 0.3	5.7 ± 0.3	11.0 ± 0.3	2.5 ± 0.5	1.3 ± 0.3	1.15 ± 0.3	1.5 typ	8.8 typ

Recommended Pad Layout

Schematic



Electrical Characteristics @25°C, 100kHz, 1V

Part Number	L [nH] 1-4/2-3	Li [nH] 1-4	DCR [mΩ] ±10%		Isat [A]			Irms [A]	
			1-4	2-3	25°C	100°C	125°C	1-4	2-3
MLR110611-R10L	105 ±15%	71.4	0.125	0.37	125	106	98	77	45
MLR110611-R12L	120 ±15%	81.6	0.125	0.37	102	87	80	77	45
MLR110611-R15L	150 ±15%	102.0	0.125	0.37	84	71	58	77	45
MLR110611-R17L	170 ±15%	115.6	0.125	0.37	70	60	53	77	45
MLR110611-R20L	200 ±15%	136.0	0.125	0.37	58	50	43	77	45

- Isat is the DC current which causes the inductance drop to Li.
- Irms is the DC current which causes the surface temperature of the part increase approximately 40°C



Features

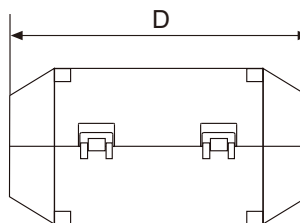
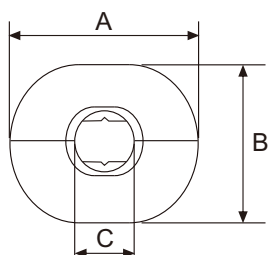
- With reliable flexible cable fixing, developed in-house
- Pre-fixing cable system facilitates the assembly process
- Cable clamping protection
- Classification of the plastic housing: UL94 V0
- Core material: NiZn

Application:

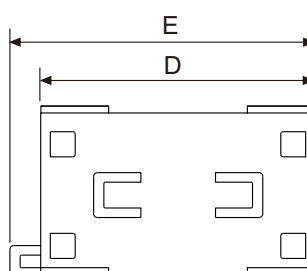
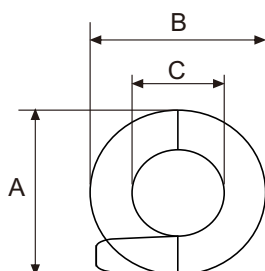
- PCs, monitors, Audio equipment
- HDDs, Digital telephones
- Electronic musical instruments
- Video games, copiers, facsimiles



Dimensions and Characteristics Specification

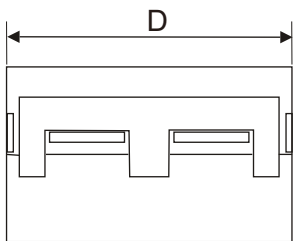
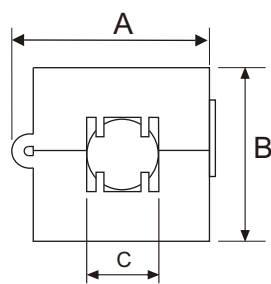


Part Number	Impedance (Ω)		Dimensions (mm)				Cable Dia Max. (mm)
	25MHz	100MHz	A (± 1)	B (± 1)	C (± 1)	D (± 1)	
SF-35A	90	130	13.0	11.8	3.5	25.5	3.5
SF-35B	55	130	13.0	11.8	5.0	25.5	5.0
SF-70A	50	110	17.0	15.0	7.0	30.0	7.0
SF-90A	60	130	19.5	18.4	9.0	35.0	9.0

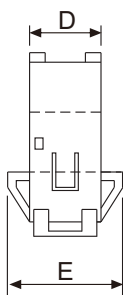
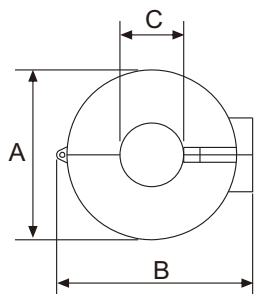


Part Number	Impedance (Ω)		Dimensions (mm)					Cable Dia Max. (mm)
	25MHz	100MHz	A (± 1)	B (± 1)	C (± 1)	D (± 1)	E (± 1)	
SF-70B	35	60	15.5	15.0	7.0	18.5	22.0	7.0
SF-90B	60	130	19.5	19.5	9.0	31.0	35.0	9.0
SF-110B	45	115	21.0	20.0	11.0	32.0	36.0	11.0
SF-130B	55	110	31.0	30.5	13.0	34.0	39.5	13.0

Dimensions and Characteristics Specification



Part Number	Impedance (Ω)		Dimensions (mm)				Cable Dia Max. (mm)
	25MHz	100MHz	A (± 1)	B (± 1)	C (± 1)	D (± 1)	
SF-65	120	230	20.5	19.0	6.5	32.5	6.5
SF-100A	90	180	25.5	24.0	10.0	32.5	10.0

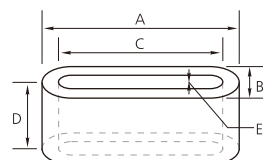


Part Number	Impedance (Ω)		Dimensions (mm)					Cable Dia Max. (mm)
	25MHz	100MHz	A (± 1)	B (± 1)	C (± 1)	D (± 1)	E (± 1)	
SF-80A	35	80	19.8	22.5	8.0	16.5	23.0	8.0
SF-80B	40	100	19.8	22.5	8.0	20.0	26.0	8.0



Features

- Easy solution to filter interference on ribbon cable
- Core material: NiZn for wideband noise suppression



ORDERING CODE

FS 6.5 x 3.8 x 9 - 1.5

(1) (2) (3) (4) (5)

(1) Type Code (2) A Size (3) B Size

(4) D Size (5) E Size

General Specifications

- Storage temp: -40°C to +80°C
- Operating temp: -25°C to +125°C
- Moisture Sensitivity Level(MSL): 1



► Dimensions & Electrical Characteristics

No.	Part Number	Dimensions (mm)					Impedance(Ω) Min.	
		A	B	C	D	E	25MHz	100MHz
1	FS6.5x3.8x9-1.5	6.5±0.4	3.8±0.4	4±0.4	9±0.4	1.5±0.4	65	85
2	FS7.5x5.5x8-3.3	7.5±0.5	5.5±0.5	5.3±0.5	8±0.5	3.3±0.5	25	75
3	FS7.5x5.5x11.5-3.3	7.5±0.5	5.5±0.5	5.3±0.5	11.5±0.5	3.3±0.5	30	85
4	FS8.5x5x3.4-1.3	8.5±0.5	5±0.5	6.2±0.5	3.4±0.4	1.3±0.4	20	60
5	FS9.1x5.6x5-3.7	9.1±0.5	5.6±0.5	7.2±0.5	5±0.5	3.7±0.5	20	65
6	FS9.1x5.6x7.8-3.7	9.1±0.5	5.6±0.5	7.2±0.5	7.8±0.5	3.7±0.5	20	70
7	FS12x4.5x12-1.5	12±0.5	4.5±0.5	9±0.5	12±0.5	1.5±0.5	45	115
8	FS19x6.5x8-1.7	19±0.6	6.5±0.5	14±0.6	8±0.5	1.7±0.5	25	75
9	FS19x6.5x8-2.0	19±0.6	6.5±0.5	14±0.6	8±0.5	2±0.5	25	75
10	FS19x6.5x12-2.5	19±0.6	6.5±0.5	14.5±0.6	12±0.5	2±0.5	30	85
11	FS19x6.5x12-1.8	19±0.6	6.5±0.5	14±0.6	12±0.5	1.8±0.5	40	100
12	FS23.5x6.5x12.5-1.5	23.5±0.6	6.5±0.5	18.5±0.6	12.5±0.5	1.5±0.5	40	110
13	FS23.5x6.5x15-1.1	23.5±0.6	6.5±0.5	18.5±0.6	15±0.5	1.1±0.5	45	120
14	FS23.5x6.5x15-1.4	23.5±0.6	6.5±0.5	19.5±0.6	15±0.5	1.4±0.5	40	115
15	FS25x5x9.5-1.5	25±0.6	5±0.5	21±0.6	9.5±0.5	1.5±0.5	25	95
16	FS25x5x12-1.5	25±0.6	5±0.5	21±0.6	12±0.5	1.5±0.5	30	100
17	FS28x8x15-2	28±0.7	8±0.5	21±0.6	15±0.5	2±0.5	40	110
18	FS28x7.7x12-2.4	28±0.7	7.7±0.5	23±0.6	12±0.5	2.4±0.5	35	100
19	FS28x14x13-7.2	28±0.7	14±0.5	20.5±0.6	13±0.5	7.2±0.5	30	90
20	FS29x8x10-2	29±0.7	8±0.5	22±0.6	10±0.5	2±0.5	30	95
21	FS29x8x12-2.4	29±0.7	8±0.5	22±0.6	12±0.5	2.4±0.5	30	115
22	FS32x6.5x9.5-2.5	32±1.0	6.5±0.5	28.5±0.6	9.5±0.5	2.5±0.5	20	80
23	FS32x6.5x9.5-3.0	32±1.0	6.5±0.5	27.5±0.6	9.5±0.5	3±0.5	20	80
24	FS32x6.5x12-2.5	32±1.0	6.5±0.5	28±0.6	12±0.5	2.5±0.5	20	85
25	FS33.5x6.5x8-1.5	33.5±1.0	6.5±0.5	27.5±0.6	8±0.5	1.5±0.5	20	80
26	FS33.5x6.5x10-1.8	33.5±1.0	6.5±0.5	27.5±0.6	10±0.5	1.8±0.5	30	95
27	FS33.5x6.5x12-1.8	33.5±1.0	6.5±0.5	27.5±0.6	12±0.5	1.8±0.5	35	100
28	FS33.5x6.5x8-1.3	33.5±1.0	6.5±0.5	27±0.6	8±0.5	1.3±0.5	25	85
29	FS33.5x6.5x10-1.3	33.5±1.0	6.5±0.5	27±0.6	10±0.5	1.3±0.5	30	105
30	FS33.5x6.5x12-1.3	33.5±1.0	6.5±0.5	27±0.6	12±0.5	1.3±0.5	30	110
31	FS33.5x6.5x15-1.3	33.5±1.0	6.5±0.5	27±0.6	15±0.5	1.3±0.5	40	120
32	FS38.5x4x12-0.8	38.5±1.5	4±0.4	35±1.0	12±0.5	0.8±0.4	35	115
33	FS38.5x4x18-0.8	38.5±1.5	4±0.4	35±1.0	18±0.6	0.8±0.4	50	150
34	FS40x6.5x12-1.8	40±1.5	6.5±0.5	35±1.0	12±0.5	1.8±0.5	30	110
35	FS40x6.5x15-2	40±1.5	6.5±0.5	35±1.0	15±0.5	2±0.5	30	100
36	FS40x6.5x18-2	40±1.5	6.5±0.5	35±1.0	18±0.5	2±0.5	40	125
37	FS49x6.5x12-1.5	49±1.5	6.5±0.5	45±1.0	12±0.5	1.5±0.5	20	65