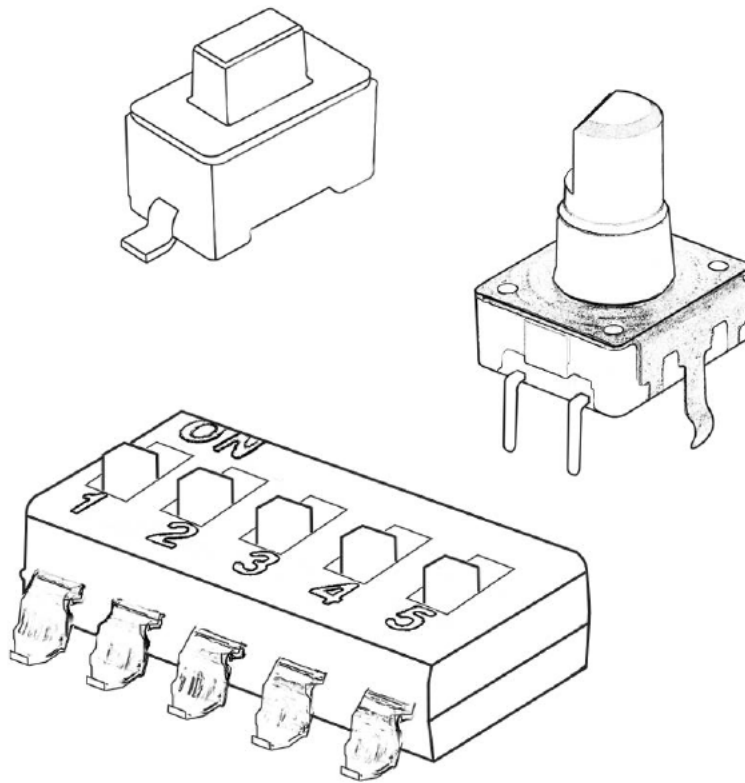




switches
OVERALL SOLUTION EXPERT

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Item	Type	Series	Features	Dimensions(mm)			Earth Terminal	Package	Page
				W	D	H			
Tact Switch < A >	Surface Mount	TVAU25	 Miniature	3	2.1	0.5/0.7	—	10Kpcs/Reel	2
		TVAU19-H	 Miniature	3	2.6	0.65	—	10Kpcs/Reel	3
		TVAU19-N	 Miniature	3	2.6	0.50	—	10Kpcs/Reel	3
		THAF01	 Horizontal	3.5	3	1.4	—	3Kpcs/Reel	4
		TVAF02	 Miniature	3.5	3	1.8	—	3Kpcs/Reel	4
		TVAF03	 Miniature	3.35	3.35	1.5/2.0		4Kpcs/Reel	5
		TVAF17	 Miniature	3.35	3.35	0.85		5Kpcs/Reel	6
		TVAF18	 Miniature	3.1	3.1	0.75	—	5Kpcs/Reel	6
		THAM04	 Horizontal	4.6	2.3	1.8	—	3Kpcs/Reel	7
		THAM05	 Horizontal	4.6	2.3	1.8	—	3Kpcs/Reel	7
		THAM15	 Horizontal	4.6	2.3	2.65	—	3Kpcs/Reel	8
		THAM16	 Dust-Poof	4.6	2.3	1.8	—	3Kpcs/Reel	8
		TVAF06	 Miniature	3.9	2.9	2.0	—	3Kpcs/Reel	9
		TVAU07	 Miniature	3.9	2.9	2.0	—	3Kpcs/Reel	9
		THAU08	 Horizontal	3.9	2.9	1.5	—	3Kpcs/Reel	10
		THAF09	 Horizontal	3.9	2.9	1.5	—	3Kpcs/Reel	10
		TVAU10	 Miniature	4.2	3.2	2.5	—	3Kpcs/Reel	11
		TVAF11	 Miniature	4.2	3.2	2.5	—	3Kpcs/Reel	11
		THAM12	 Horizontal	4.5	2.56	3.3	—	2Kpcs/Reel	12
		THAM16	 Horizontal	5.7	2.5	3.5	—	2Kpcs/Reel	12
		THAU13	 Horizontal	4.7	3.5	1.6	—	3Kpcs/Reel	13
		THAF14	 Horizontal	4.7	3.5	1.6	—	3Kpcs/Reel	13
		TVAU22	 Miniature	3.7	3.7	0.35	—	10Kpcs/Reel	14
		TVAF28	 Miniature	3.5	3.0	1.7	—	3Kpcs/Reel	15
		TVAU29	 Miniature	3.5	3.0	1.7	—	3 Kpcs/Reel	15
		TVAU23	 Miniature	4.7	3.6	2.5	—	3Kpcs/Reel	16
		TVAF24	 Miniature	4.7	3.6	2.5	—	3Kpcs/Reel	16
Item	Type	Series	Features	Dimensions(mm)			Earth Terminal	Package	Page
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Tact Switch < B >	Surface Mount	THBM02	 Horizontal	7.0	2.5	3.5	—	2Kpcs/Reel	17
		THBM03	 Horizontal	7.0	2.5	3.5	—	2Kpcs/Reel	17
		THBM05	 Horizontal	6.1	4.0	1.8	—	2Kpcs/Reel	19

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Item	Type	Series	Features	Dimensions(mm)			Earth Terminal	Package	Page
				W	D	H			
Tact Switch < B >	Surface Mount	TVBR14	 Vertical	6.0	3.5	4.3/5.0	—	1.5Kpcs/Reel	20
		TVBF09	 Vertical	6.0	3.5	4.3/5.0	—	1.5Kpcs/Reel	21
		TVBU10	 Vertical	6.0	3.5	4.3/5.0	—	1.5Kpcs/Reel	21
		TVBM11	 Vertical	6.0	3.5	4.3/5.0	—	1.5Kpcs/Reel	22
		TVBM17	 Dust-proof	6.1	3.7	2.5	●	3Kpcs/Reel	24
		TVBF18	 Dust-proof	6.1	3.7	2.5	●	3Kpcs/Reel	24
		TVBU19	 Dust-proof	6.1	3.7	2.5	●	3Kpcs/Reel	24
		TVBM20	 Vertical	6.1	3.7	2.5	—	3Kpcs/Reel	25
		TVBP21	 Vertical	6.0	3.5	2.5	—	3Kpcs/Reel	25
		TVBF22	 Normal Closed	6.0	3.8	2.6	—	3Kpcs/Reel	26
	Snap-in	THBP04	 Horizontal	6.0	3.5	3.5	—	1Kpcs/Bulk	18
		THBP07	 Horizontal	7.3	6.0	4.3	—	1Kpcs/Bulk	18
		TVBP06	 Vertical	6.0	3.5	4.3/5.0	—	1Kpcs/Bulk	20
		TVBJ12	 Vertical	6.0	3.5	4.3/5.0	—	1Kpcs/Bulk	20
		TVBT16	 Vertical	6.0	3.5	4.3/5.0	—	1Kpcs/Box	23
Item	Type	Series	Features	Dimensions(mm)			Earth Terminal	Package	Page
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Tact Switch < C >	Surface Mount	TVCM01	 Vertical	4.5	4.5	X	—	2Kpcs/Reel(H:3.8/4.3/5.0) 800pcs/Reel(H:6.0/7.0/8.0)	27
		TVCM04	 Vertical	4.5	4.3	1.6	—	4Kpcs/Reel	28
		TVCM09	 Low-Profile	4.5	4.5	0.55	—	5Kpcs/Reel	29
		TVCU11	 Low-Profile	5.2	5.2	0.9	●	4Kpcs/Reel	30
		TVCU12	 Low-Profile	5.2	5.2	0.8	—	5Kpcs/Reel	30
		TVCU13	 Low-Profile	4.8	4.8	0.55	—	5Kpcs/Reel	31
		TVCM15	 Low-Profile	5.2	5.2	1.0	—	4Kpcs/Reel	32
		TVCM16	 Dust-proof	5.2	5.2	X	—	4Kpcs/Reel	33
		TVCM17	 Dust-proof	5.2	5.2	X	—	4Kpcs/Reel	33
		TVCU18	 Dust-proof	5.2	5.2	X	●	4Kpcs/Reel	34
		TVCF19	 Dust-proof	5.2	5.2	X	●	4Kpcs/Reel	34

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Item	Type	Series		Features	Dimensions(mm)			Earth Terminal	Package	Page
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Tact Switch < C >	Snap-in	TVCP02		Vertical	4.5	4.5	X	—	1Kpcs/Bulk	27
		THCP03		Horizontal	4.5	4.5	X		1Kpcs/Bulk	27
Item	Type	Series		Features	Dimensions(mm)			Earth Terminal	Package	Page
					W	D	H			
Tact Switch < D >	Surface Mount	THDM03		Horizontal	6.0	6.0	7.4		500pcs/Reel	36
		TVDM04		Vertical	6.0	6.0	X		1Kpcs/Reel(H:4.3/6.0) 700pcs/Reel(H:6.5/8.0) 500pcs/Reel(H:8.5/10.0)	37
		TVDM04-G73		Vertical	6.0	6.0	7.3		700pcs/Reel	37
		TVDM25		Vertical	6.0	6.0	X		1Kpcs/Reel(H:4.3/6.0) 700pcs/Reel(H:6.5/8.0) 500pcs/Reel(H:8.5/10.0)	37
		THDM13		Horizontal	7.1	5.0	7.5		500pcs/Reel	41
		TVDU21		Long-Travel	6.0	6.0	5.0	—	1Kpcs/Reel	46
	Snap-in	TVDP01		Vertical	6.0	6.0	X		1Kpcs/Bulk	35
		TVDP02		Vertical	6.0	6.0	X		1Kpcs/Bulk	35
		TVDP01-G73		Vertical	6.0	6.0	7.3		1Kpcs/Bulk	35
		TVDJ06		Vertical	6.0	6.0	X		1Kpcs/Bulk	38
		THDP07		Horizontal	6.0	6.0	X		1Kpcs/Bulk	38
		THDP19		Horizontal	6.0	6.0	X		1Kpcs/Bulk	38
		THDP08		Horizontal	7.5	6.55	7.1	—	1Kpcs/Bulk	39
		THDP09		Horizontal	7.5	6.55	7.1	—	1Kpcs/Bulk	39
		THDP10		Horizontal	7.5	6.55	7.1	—	1Kpcs/Bulk	39
		THDP11		Horizontal	7.5	6.55	7.1	—	1Kpcs/Bulk	40
		THDP12		Horizontal	6.2	6.2	11.25	—	500pcs/Bulk	40
		THDT14		Horizontal	7.4	9.25	7.1	—	700pcs/Box	42
		TVDT17		Vertical	6.0	6.0	X	—	2kpcs/Box	42
		TVDT18		Circle	φ6		4.3/5.0	—	1kpcs/Box	44
		THDP24		Two-Key	7.3	8.0	9.65	—	500pcs/Bulk	45

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Tact Switch < E >	Surface Mount	TVEU01		Vertical	6.2	6.2	2.0/2.5/3.1		1.5Kpcs/Reel	47
		TVEF02		Vertical	6.2	6.2	2.0/2.5/3.1		1.5Kpcs/Reel	47
		TVEM04		Dust-proof	6.2	6.2	3.1/5.0		1.5Kpcs/Reel	48
		TVEM05-E		Vertical	6.2	6.2	2.5/3.1/3.4		1.5Kpcs/Reel	49
		TVEJ10		Middle-Travel	6.2	6.2	3.5	—	1.5Kpcs/Reel	51
		TVEM11		Middle-Travel	6.2	6.2	3.5	—	1.5Kpcs/Reel	51
	Snap-in	TVEP07		Vertical	6.2	6.2	2.5/3.1/3.4		1Kpcs/Bulk	50
		TVEJ08		Vertical	6.2	6.2	2.5/3.1/3.4		1Kpcs/Bulk	50
Item	Type	Series		Features	Dimensions(mm)			Earth Terminal	Package	Page
					W	D	H			
Tact Switch < G >	Surface Mount	TVGM03		Vertical	12.0	12.0	X		900pcs/Reel(H:4.3/5.0) 600pcs/Reel(H:6.0) 500pcs/Reel(H:7.0/7.3)	54
	Snap-in	TVGP01		Vertical	12.0	12.0	X		500pcs/Bulk	53
		TVGP01-□ G73		Vertical	12.0	12.0	7.3		500pcs/Bulk	53
		TVGP01-A		Vertical	12.0	12.0	X		500pcs/Bulk	53
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Tact Switch < J >	Surface Mount	TVEJ12-□ 031		Washable	6.2	6.2	3.1	—	1.5Kpcs/Reel	52
		TVEJ12-□ 052		Washable	6.2	6.2	5.0	—	1.5Kpcs/Reel	52
		TVEJ12-□ 023		Washable	6.2	6.2	2.3	—	1.5Kpcs/Reel	52
		TVJM17		Washable	6.2	6.2	X	—	1Kpcs/Reel(H:4.3/6.0) 700pcs/Reel(H:6.5/8.0) 500pcs/Reel(H:8.5/10.0)	56
	Snap-in	TVJP13		Washable	6.2	6.2	X	—	1Kpcs/Bulk	55
		TVJP16		Washable	6.2	6.2	8.0~13.0	—	500pcs/Bulk	55
		TVJP14		Washable	8.0	8.0	6.5~13.0	—	1Kpcs/Bulk	57
		TVJP12-N		Washable	100	100	33.6	—	200pcs/Bulk	58
		TVJP12-E		Washable	100	100	33.6		200pcs/Bulk	58
		TVJP11		Washable	100	100	13/23.2	—	500pcs/Bulk	59
		TVJP09		Washable	100	100	5.0	—	500pcs/Bulk	60

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Item	Type	Series		Features	Dimensions(mm)			Earth Terminal	Package	Page
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Tact Switch < J >	Snap-in	TVJP07		Washable	$\phi 10$		13.0	—	1Kpcs/Box	61
		TVJP08		Washable	8.0	8.0	13.0	—	1Kpcs/Box	61
		TVJP15		Washable	12.0	12.0	6.5~12.0	—	500pcs/Bulk	62
Item	Type	Series		Features	Dimensions(mm)			Earth Terminal	Package	Page
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Multi-Function Switch < H >	Multiway	TMHF07		Double Action	6.5	6.2	2.0/3.8	—	1Kpcs/Reel	64
		TMHU12		4-direction & center-push	6.5	6.1	5.0		1Kpcs/Reel	65
		TMHU13		4-direction & center-push	7.5	7.5	5.0		1Kpcs/Reel	66
		TMHM14		4-direction & center-push	10.4	10.0	5.0		1Kpcs/Reel	67
		TMHM16		4-direction & center-push	10.7	10.0	6.50		650pcs/Reel	68
		TMHU26		Push&Lever	11.8	11.7	2.5	—	1Kpcs/Reel	69
		TMHU27		Push&Lever	12.0	11.8	2.5	—	1Kpcs/Reel	69
		TMHU28		Push&Lever	11.8	11.3	3.0	—	1Kpcs/Reel	70
		TMHU29		Push&Lever	11.8	11.4	3.0	—	1Kpcs/Reel	70
		TMHU32		Push&Lever	9.5	8.15	2.2	—	1.5Kpcs/Reel	71
		TMHU33		Push&Lever	9.5	8.8	2.2	—	1.5Kpcs/Reel	71
Item	Type	Series		Features	Dimensions(mm)			Self-Lock	Package	Page
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Light Switch < I >	Surface Mount	LS616		illuminated	6.0	6.0	7.2	—	100pcs/Tray	79
		LS617		illuminated	7.5	7.5	11.50	—	100pcs/Tray	80
	Snap-in	LS601		illuminated	6.0	6.0	7.0/7.2	—	200pcs/Tray	73
		LS602		illuminated	7.5	7.5	8.2	—	150pcs/Tray	73
		LS603		illuminated	7.5	7.5	8.2	—	150pcs/Tray	74
		LS604		illuminated	10.0	10.0	8.5	—	150pcs/Tray	74
		LS605		illuminated	6.0	6.0	8.5	—	200pcs/Tray	75
		LS606		illuminated	7.5	7.5	9.6	—	150pcs/Tray	75
		LS609		illuminated	10	10.0	9.7	—	150pcs/Tray	76
		LS610		illuminated	$\phi 10.0$		9.4	—	150pcs/Tray	76
		LS611		illuminated	6.0	6.0	7.0	—	200pcs/Tray	77
		LS613		illuminated	10.0	10.0	10.0	—	150pcs/Tray	78
		LS614		illuminated	10.0	10.0	10.0	—	150pcs/Tray	78
		LS615		illuminated	10.0	10.0	8.15	—	100pcs/Tray	79

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		LS619	 illuminated	6.0	6.0	9.1	—	100pcs/Tray	81
		LS620	 illuminated	6.0	6.0	8.9	—	100pcs/Tray	81
		LS621	 illuminated	6.0	6.0	8.9	—	100pcs/Tray	82
		LS622	 illuminated	7.5	7.5	9.75	—	100pcs/Tray	82
		LS623	 illuminated	9.9	9.9	8.8	—	100pcs/Tray	83
		LS624	 illuminated	φ10.0		9.65	—	100pcs/Tray	83
		LS625	 illuminated	9.95	9.95	9.60	—	100pcs/Tray	84
		LS626	 illuminated	9.95	9.95	9.60	—	100pcs/Tray	84
		LS627	 illuminated	12.5	12.5	9.85	—	100pcs/Tray	85
		LS628	 illuminated	12.5	12.5	9.85	—	100pcs/Tray	85
		LS629	 illuminated	8.3	8.6	10.7	—	100pcs/Tray	86
		LS630	 illuminated	8.3	8.6	10.7	—	100pcs/Tray	86
		LS631	 illuminated	8.3	8.6	10.7	—	100pcs/Tray	87
		LS8501	 illuminated	8.5	7.5	10.1	●	100pcs/Tray	88
		LS8502	 illuminated	8.5	7.5	11.5	●	100pcs/Tray	88
		LS8503	 illuminated	10.0	10.0	12.5	●	100pcs/Tray	89
		LS8504	 illuminated	8.9	9.0	12.85	●	100pcs/Tray	89
		LS8505	 illuminated	8.9	9.0	12.85	●	100pcs/Tray	90
		LS8506	 illuminated	12.6	12.6	12.75	●	100pcs/Tray	90
		LS8507	 illuminated	φ12.6		12.70	●	100pcs/Tray	91
		LS8508	 illuminated	12.6	12.6	12.75	●	100pcs/Tray	91
		LS8509	 illuminated	φ12.6		12.75	●	100pcs/Tray	92
		LS8510	 illuminated	φ12.6		12.75	●	100pcs/Tray	92
		LS8511	 illuminated	8.5	8.5	11.2	—	200pcs/Tray	93
		LS8512	 illuminated	8.5	8.5	14.0	—	100pcs/Tray	93
		LS1001	 illuminated	10.0	10.0	10.7	—	100pcs/Tray	94
		LS1002	 illuminated	10.0	10.0	10.7	—	100pcs/Tray	94
		LS1003	 illuminated	10.0	10.0	15.2	—	100pcs/Tray	95

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		LS1005		illuminated	15.1	15.1	12.0		50pcs/Tray	96
		LS1006		illuminated	10.0	10.0	15.3	—	100pcs/Tray	96
		LS1201		illuminated	12.0	12.0	7.3	—	100pcs/Tray	97
		LS1202		illuminated	12.0	12.0	8.0	—	100pcs/Tray	98
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		PS8007		Self-Lock	8.0	8.0	13.6		1Kpcs/Bulk	102
	Snap-in	PS5801		Self-Lock	5.8	5.8	10.0		1Kpcs/Bulk	100
		PS5804		Self-Lock	5.8	5.8	10.0		1Kpcs/Bulk	100
		PS5807		Self-Lock	5.8	5.8	7.35		1Kpcs/Bulk	100
		PS7001		Self-Lock	7.0	7.0	12.7		1Kpcs/Bulk	101
		PS7004		Self-Lock	7.0	7.0	9.7		1Kpcs/Bulk	101
		PS8001		Self-Lock	8.0	8.0	13.6		1Kpcs/Bulk	102
		PS84501		Self-Lock	8.45	8.45	14.0		1Kpcs/Bulk	103
		PS84504		Self-Lock	8.45	8.45	13.95		1Kpcs/Bulk	103
		PS84507		Self-Lock	8.45	8.45	14.0		1Kpcs/Bulk	103
		PS8501		Self-Lock	8.5	8.5	13.95		1Kpcs/Bulk	104
		PS8504		Self-Lock	8.5	8.5	14.0		1Kpcs/Bulk	104
		PS8507		Self-Lock	8.5	8.5	14.15		1Kpcs/Bulk	104
		PS8510		Self-Lock	8.5	8.5	14.20		1Kpcs/Bulk	105
		PS8513		Self-Lock	8.5	8.5	13.95		1Kpcs/Bulk	105
		PS8516		Self-Lock	8.5	8.5	14.20		1Kpcs/Bulk	105
		PV8519		Self-Lock	13.0	8.5	14.20		1Kpcs/Bulk	106
		PS12301		Self-Lock	12.3	11.0	19.0		1Kpcs/Bulk	107
		PS12303		Self-Lock	12.3	11.0	19.0		1Kpcs/Bulk	107
		PS12305		Self-Lock	12.3	11.0	24.4		1Kpcs/Bulk	107

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		R7M3		Rotary	7.2	7.2	0/3.0		63pcs/Tube	115
	Snap-in	RH-16		Rotary	10.0	10.0	6.85		50pcs/Tube	109
		RH-10		Rotary	10.0	10.0	6.85		50pcs/Tube	109
		RHL-16		Rotary	10.0	10.0	13.75		50pcs/Tube	110
		RHL-10		Rotary	10.0	10.0	13.75		50pcs/Tube	110
		RR3-4		Rotary	9.8	6.74	9.9		48pcs/Tube	111
		RH2		Rotary	9.8	6.64	9.9		48pcs/Tube	112
		RM3		Rotary	9.8	9.9	4.5		48pcs/Tube	113
		RR4		Rotary	9.8	9.8	4.5		48pcs/Tube	113
		R7S2		Rotary	7.4	7.3	0/3.0		62pcs/Tube	114
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		R7H3		Rotary	7.2	7.2	0/3.0		63pcs/Tube	116
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		DHM		Half-Pitch	X	4.5	1.5			118
		DEM		End Stackable	X	6.0	3.4			119
		DEH		End Stackable	X	6.0	2.8			120
		DAH(S)		Auto Inserting	X	6.2	3.6			121
		DAM		Auto Inserting	X	6.2	3.0			122
		DAF		Auto Inserting	X	6.2	3.0			123
		DPS		New Piano	X	6.0	5.0			124
		DPM		New Piano	X	6.0	5.0			125
		PEH		End Stackable Piano	X	6.0	5.0			126
		PEM		End Stackable Piano	X	6.0	5.0			127
		DS		Silde	X	9.9	7.1			128
		DP		Piano	X	10.8	10.3			129
		DR		Right Angle	X	9.9	9.9			130

01

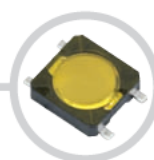
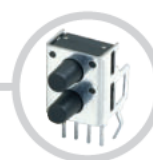
TACT SWITCH SERIES

Features:

- Microminiature, light operating.
- Good feeling and long life.
- Snap-in type, can be mounted directly on P.C. Board and good for electrostatic discharge.
- It has a lot of choices for button shape, height and it is easily to install all kind of product.

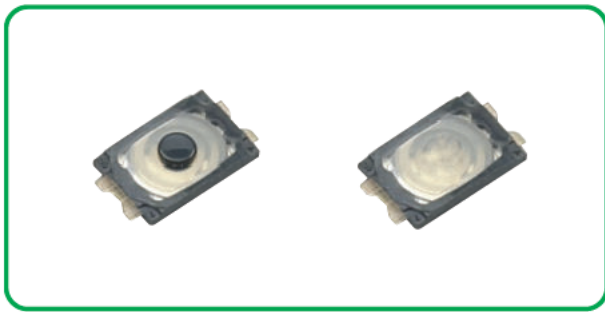
Applications:

They can operate all types of electronic equipment such as the telephone, PDA, DVD, digital camera, audio equipment, instrument and meter equipment, autoimmunization equipments control etc.

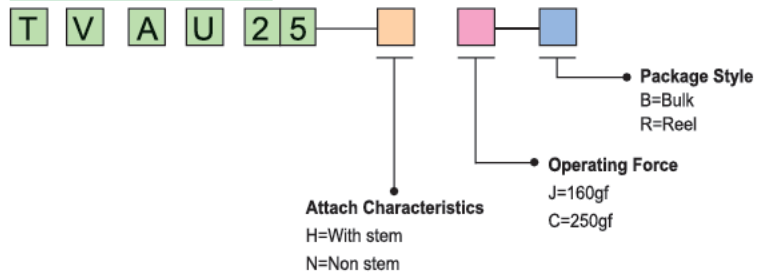


MINI SERIES

2.0x3.0 Miniature Type Vertical Push Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	20mA. 15V DC
	Insulation resistance	50MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	500mΩ max.
Durability	Lifetime	J:100,000 Cycles C:50,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.15 ± 0.05mm

Diagram

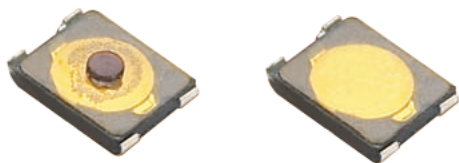
No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVAU25</p>	

MINI SERIES

2.7x3.0 Miniature Type Vertical Push Tact Switch



TACT SWITCH



HOW TO ORDER

T V A U 1 9



Attach Characteristics

H=With stem

N=Non stem



Package Style

B=Bulk

R=Reel

Operating Force

J=160gf

C=250gf

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	20mA. 12V DC
	Insulation resistance	50MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:100,000 Cycles C:50,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.15 ± 0.05mm

Diagram

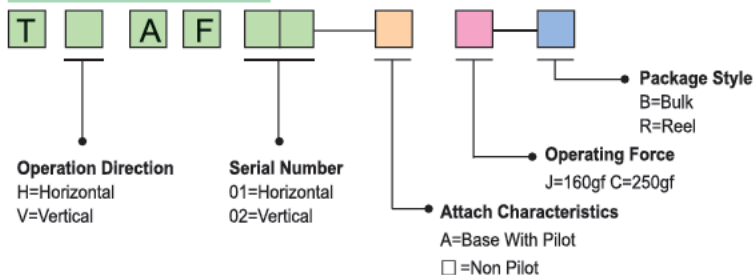
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVAU19-H</p>	
2	<p>● TVAU19-N</p>	

MINI SERIES

3.0x3.5 Miniature Type Horizontal Push & Vertical Push Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.13 ± 0.05mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● THAF01</p>	
2	<p>● TVAF02</p>	

MINI SERIES

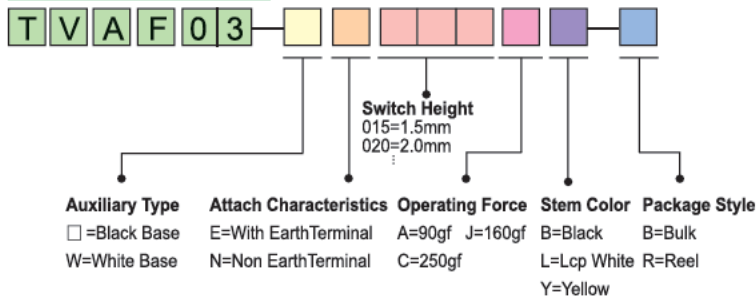
3.3x3.3 Miniature Type Tact Switch



TACT SWITCH



HOW TO ORDER



Specification

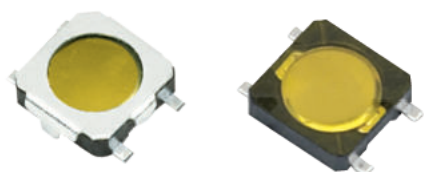
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf
	Travel	0.20 ± 0.1mm

Diagram

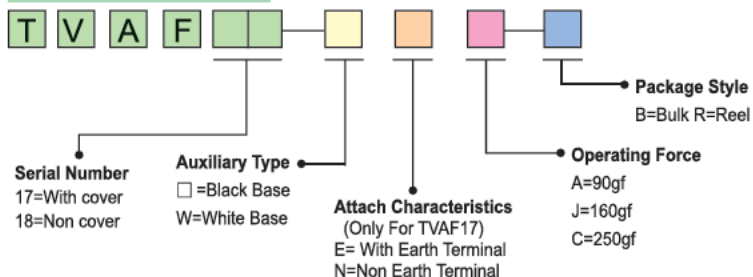
No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVAF03</p> <p>H 1.5 2.0</p>	

MINI SERIES

3.3x3.3 Miniature Type Tact Switch



HOW TO ORDER



TACT SWITCH

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf
	Travel	0.20 ± 0.1mm

Diagram

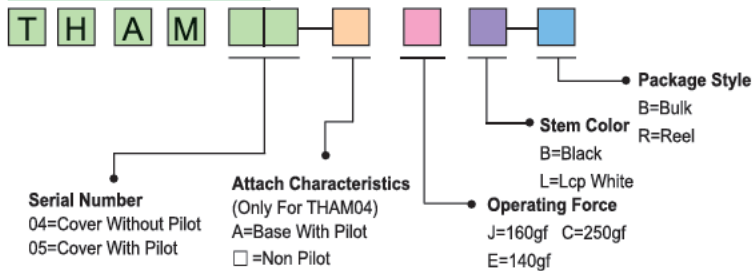
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVAF17</p>	
2	<p>● TVAF18</p>	

MINI SERIES

2.3x4.6 Miniature Type Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:J:E:50,000 Cycles C:30,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf E:140gf
	Travel	0.15 ± 0.05mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● THAM04</p>	
2	<p>● THAM05</p>	

MINI SERIES

2.3x4.6 Miniature Type Tact Switch



HOW TO ORDER

T H A M

Serial Number
15=Thickening of the base
16=Dust-proof type

Attach Characteristics
(Only For THAM15)
A=Cover With Pilot
□ =Non Pilot

Operating Force
J=160gf C=250gf
E=140gf

Package Style
B=Bulk
R=Reel

Stem Color
B=Black
L=Lcp White

TACT SWITCH

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	E:J:50,000 Cycles C:30,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf E:140gf
	Travel	0.15 ± 0.05mm

Diagram

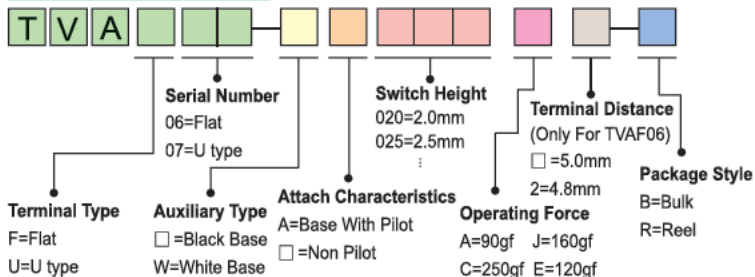
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● THAM15</p>	
2	<p>● THAM16</p>	

MINI SERIES

2.9x3.9 Miniature Type Vertical Push Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf E:120gf
	Travel	0.13 ± 0.05mm

Diagram

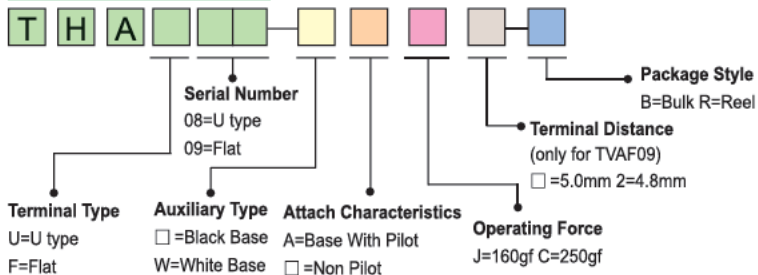
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVAF06</p> <p>H</p> <p>1.5</p> <p>2.0</p> <p>2.5</p> <p>3.0</p>	
2	<p>● TVAU07</p> <p>H</p> <p>1.5</p> <p>2.0</p> <p>2.5</p> <p>3.0</p>	

MINI SERIES

2.9x3.9 Miniature Type Horizontal Push Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.20 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● THAU08</p>	
2	<p>● THAF09</p>	

TACT SWITCH

LEAD FREE



The diagram shows a 10-pin header with the following specifications:

- Terminal Type:** U=U type, F=Flat
- Serial Number:** 10=U type, 11=Flat
- Switch Height:** 025=2.5mm
- Operating Force:** J=160gf, C=250gf, H=400gf
- Package Style:** B=Bulk R=Reel
- Stem Color:** L=Lcp White, F=PPA White

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	500mΩ max.
Durability	Lifetime	100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf H:400gf
	Travel	0.20 ± 0.1mm

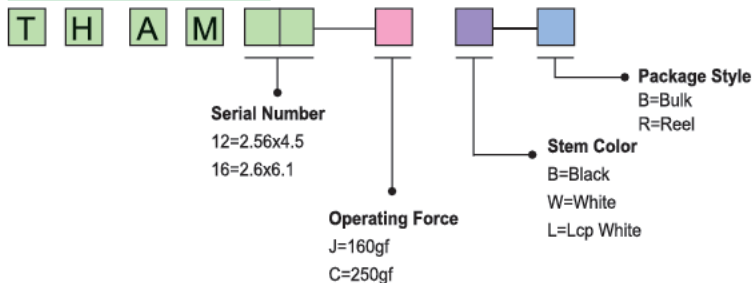
No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVAU10</p>	
2	<p>● TVAF11</p>	

MINI SERIES

2.56x4.5 Miniature Type Horizontal Push Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	500mΩ max.
Durability	Lifetime	100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.20 ± 0.1mm

Diagram

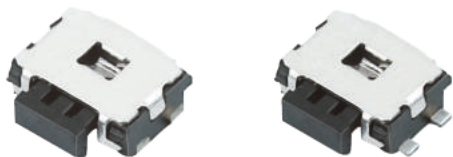
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● THAM12</p>	
2	<p>● THAM16</p>	

MINI SERIES

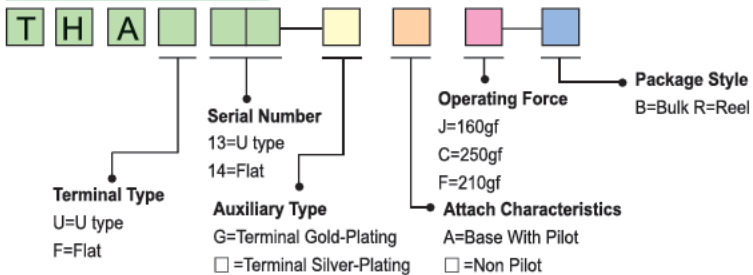
3.5x4.7 Horizontal Push Tact Switch



TACT SWITCH



HOW TO ORDER



Specification

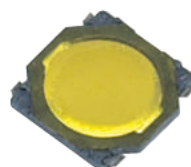
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf F:210gf
	Travel	0.20 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● THAU13</p>	
2	<p>● THAF14</p>	

MINI SERIES

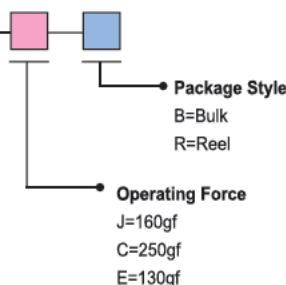
3.7x3.7 Miniature Type Tact Switch



New

HOW TO ORDER

T V A U 2 2



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles.
Mechanical performance	Operating force	J:180gf C:250gf E:130gf
	Travel	0.15 ± 0.05

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVAU22</p> <p>Top View Dimensions: Overall width: 3.7±0.1 Overall height: 3.7±0.1 Inner width: 3.1±0.1 Inner height: 3.1±0.1 Mounting hole diameter: 0.4±0.05 Mounting hole pitch: 2.75±0.1 Terminal width: 0.25 Terminal height: 0.05 Terminal thickness: 0.35</p>	<p>Pad Layout Dimensions: Terminal pitch: 2.0±0.1 Terminal width: 0.6 Terminal height: 2.75±0.05 Terminal thickness: 0.35</p>

3.5x4.7 Vertical Push Tact Switch



Terminal Type
 F=Flat
 U=U type

Serial Number
 28=Flat
 29=U type

Attach Characteristics
 A=Base With Pilot
 □=Non Pilot

Switch Height
 025=2.5mm

Operating Force
 J=160gf
 C=250gf

Package Style
 B=Bulk
 R=Reel

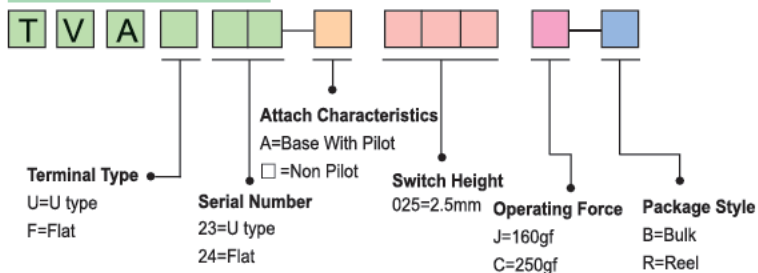
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	50,000 Cycles.
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.20 ± 0.1mm

No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVAF28</p>	
2	<p>● TVAU29</p>	

3.5x4.7 Vertical Push Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles.
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.20 ± 0.1mm

Diagram

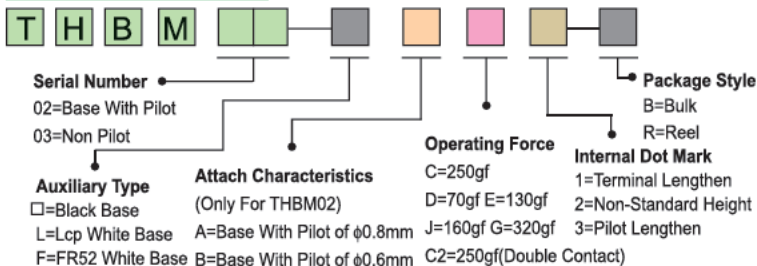
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVAU23</p>	
2	<p>● TVAF24</p>	

3x6 SERIES

2.5x7.0 SMT & Right Angle Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100M Ω min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100m Ω max.
Durability	Lifetime	J:D:E:50,000Cycles C:G:30,000 Cycles
Mechanical performance	Operating force	C:250gf D:70gf E:130gf J:160gf G:320gf
	Travel	0.25 $\pm$ 0.1mm

Diagram

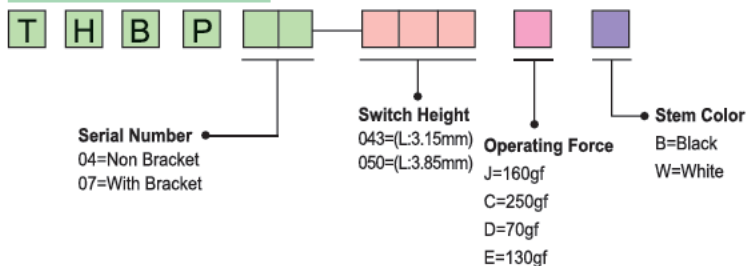
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● THBM02</p> <p>A $\phi 0.6$ $\phi 0.8$</p>	
2	<p>● THBM03</p>	

3x6 SERIES

3.5x6.0 Horizontal Push & Bracket Shape Tact Switch



HOW TO ORDER



TACT SWITCH

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	D:E:J:50,000Cycles C:30,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf D:70gf E:130gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● THBP04</p> <p>L 3.15 3.85</p>	
2	<p>● THBP07</p> <p>L 3.15 3.85</p>	

3x6 SERIES

4.0x6.1 Horizontal Push Tact Switch

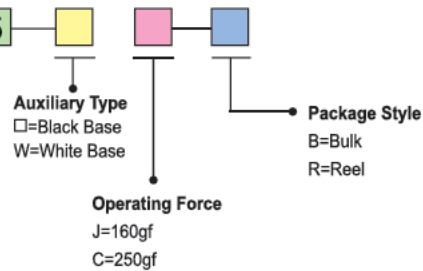


TACT SWITCH



HOW TO ORDER

T H B M 0 5



Specification

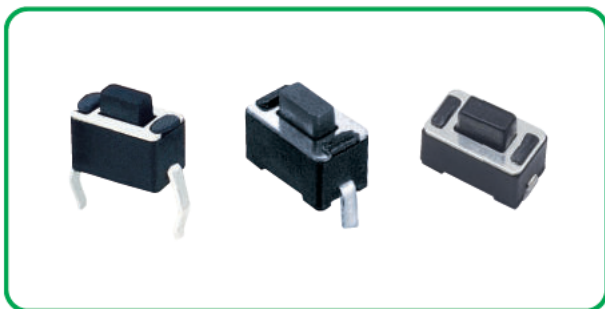
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	50,000 Cycles.
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.30 ± 0.1mm

Diagram

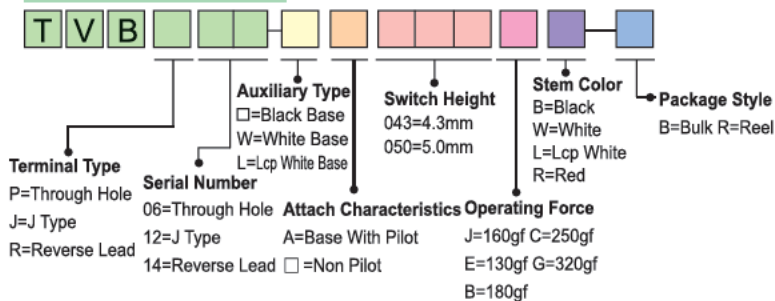
No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● THBM05</p>	

3x6 SERIES

3.5x6.0 Vertical Push Tact Switch



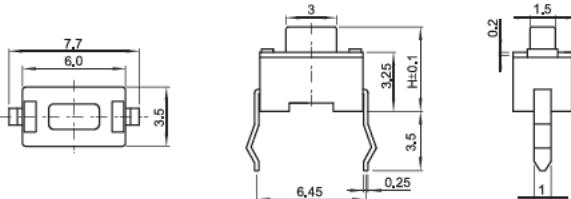
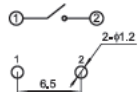
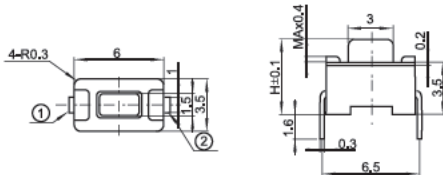
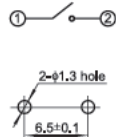
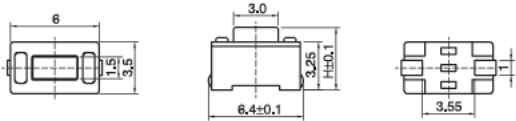
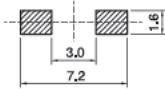
HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-20℃ to +70℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	D:E:J:50,000Cycles C:30,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf D:70gf E:130gf B=180gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout			
1	<p>● TVBP06</p>  <table><tr><td>H</td></tr><tr><td>4.3</td></tr><tr><td>5.0</td></tr></table>	H	4.3	5.0	
H					
4.3					
5.0					
2	<p>● TVBJ12</p>  <table><tr><td>H</td></tr><tr><td>4.3</td></tr><tr><td>5.0</td></tr></table>	H	4.3	5.0	
H					
4.3					
5.0					
3	<p>● TVBR14</p>  <table><tr><td>H</td></tr><tr><td>4.3</td></tr><tr><td>5.0</td></tr></table>	H	4.3	5.0	
H					
4.3					
5.0					

3x6 SERIES

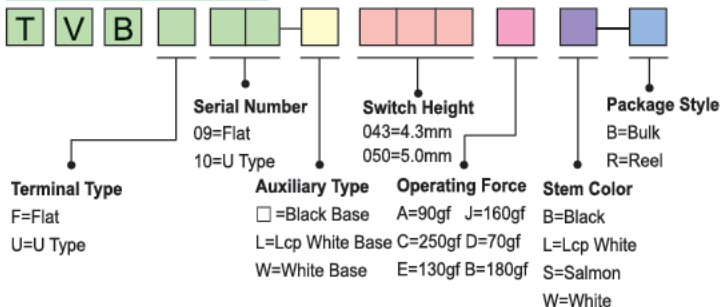
3.5x6.0 Vertical Push Tact Switch



TACT SWITCH



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-20℃ to +70℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:D:E:J:50,000Cycles C:30,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf D:70gf E:130gf B:180gf
	Travel	0.25 ± 0.1mm

Diagram

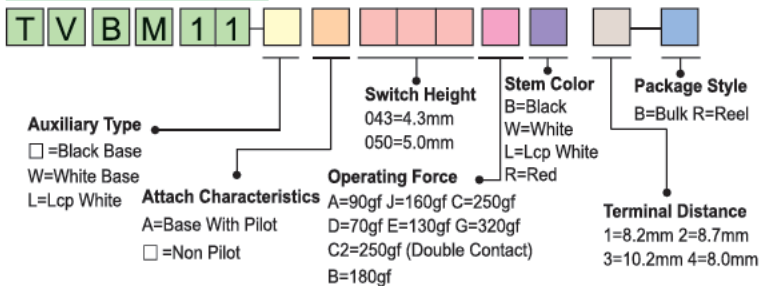
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVBF09</p>	
2	<p>● TVBU10</p>	

3x6 SERIES

3.5x6.0 SMT Type Tact Switch



HOW TO ORDER

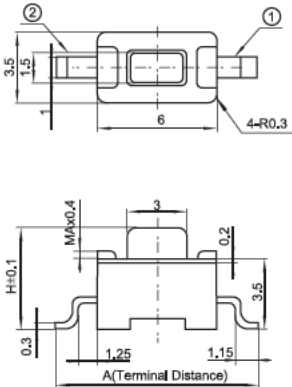
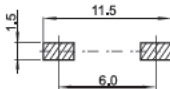


TACT SWITCH

Specification

Items		Standard
Operating temperature range		-20℃ to +70℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:D:E:J:50,000Cycles C:G:30,000 Cycles C2:100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf D:70gf E:130gf G:320gf B=180gf
	Travel	0.25 ± 0.1mm

Diagram

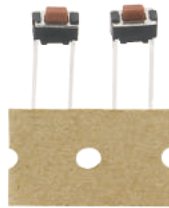
No.	Dimensions	Circuit Diagram Pad Layout									
1	<div>● TVBM11</div> <div></div>	<table><tr><th>H</th><th>A</th></tr><tr><td>4.3</td><td>8.2</td></tr><tr><td>5.0</td><td>8.7</td></tr><tr><td></td><td>10.2</td></tr></table>	H	A	4.3	8.2	5.0	8.7		10.2	<div></div> <div></div>
		H	A								
		4.3	8.2								
		5.0	8.7								
			10.2								

3x6 SERIES

3.5x6.0 Taping Type Tact Switch

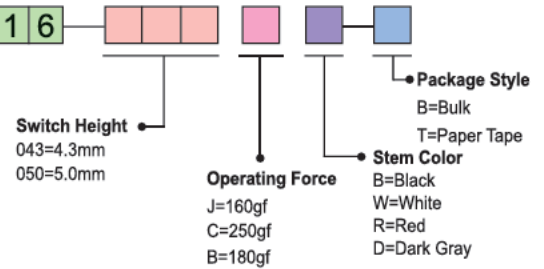


TACT SWITCH



HOW TO ORDER

T V B T 1 6



Specification

Items		Standard
Operating temperature range		-20℃ to +70℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:50,000Cycles C:30,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf B=180gf
	Travel	0.25 ± 0.1mm

Diagram

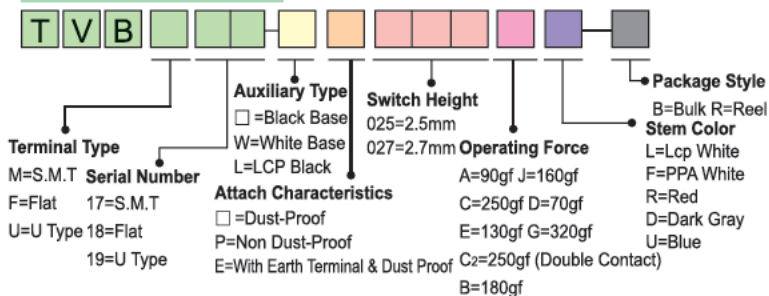
No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVBT16</p> <p>H 4.3 5.0</p>	

3x6 SERIES

3.7x6.1 SMT Type Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:D:E:J:50,000Cycles C:G:30,000 Cycles C2:100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf D:70gf E:130gf G:320gf B=180gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVBM17</p>	
2	<p>● TVBF18</p>	
3	<p>● TVBU19</p>	

3x6 SERIES

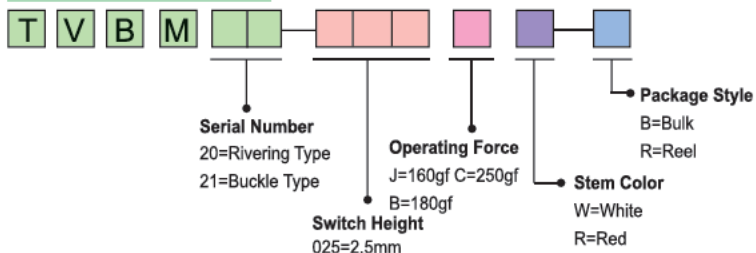
3.5x6.1 Through Hole & SMT Type Tact Switch



TACT SWITCH



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:50,000Cycles C:30,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf B=180gf
	Travel	0.25 ± 0.1mm

Diagram

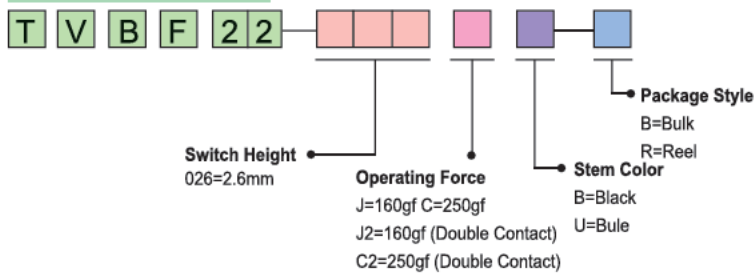
No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVBM20</p>	
2	<p>● TVBP21</p>	

3x6 SERIES

3.8x6.0 Normal Closed Type Tact Switch



HOW TO ORDER



Specification

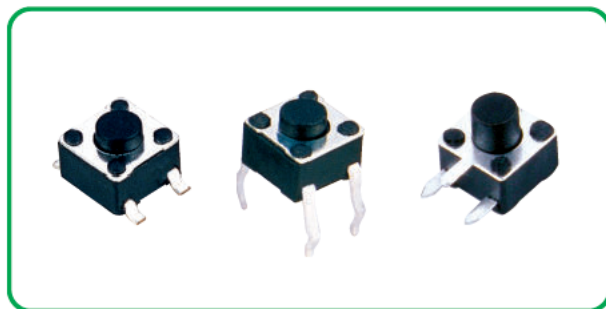
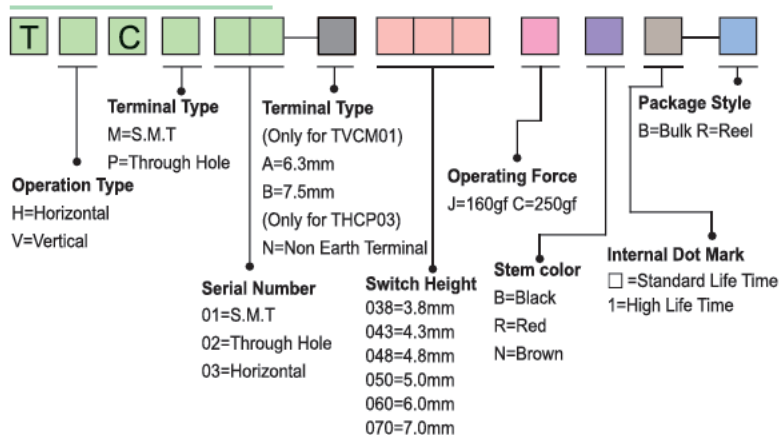
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:50,000 Cycles C:30,000 Cycles J2:C2:100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVBF22</p>	

4.5x4.5 SERIES

4.5x4.5 Through Hole & SMT Type Tact Switch



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:100,000 Cycles C:50,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

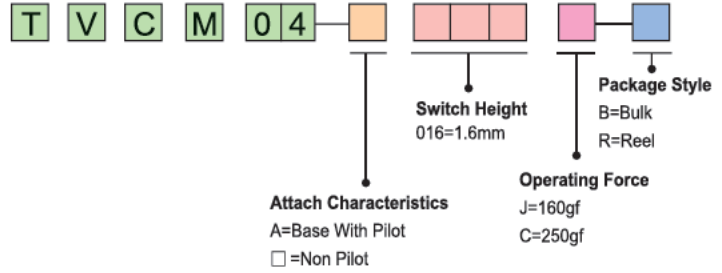
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVCM01</p>	
2	<p>● TVCP02</p>	
3	<p>● THCP03</p>	

4.5x4.5 SERIES

4.3x4.5 SMT Type Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:300,000 Cycles C:100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.15 ± 0.05mm

Diagram

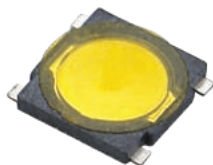
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVCM04-A</p>	
2	<p>● TVCM04-N</p>	

4.5x4.5 SERIES

4.5x4.5 Low-profile SMT Tact Switch



TACT SWITCH



HOW TO ORDER

T V C M

09

Package Style
B=Bulk
R=Reel

Operating Force
J=160gf
C=250gf

Specification

Items		Standard
Operating temperature range		-20℃ to +70℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	100V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:500,000 Cycles C:200,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.15 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVCM09</p>	

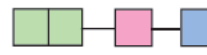
5.2x5.2 SERIES

5.2mm Square Low-Profile Type



HOW TO ORDER

T V C U



Serial Number
11=With Cover
12=Non Cover

Operating Force
A=90gf J=160gf
C=250gf D=70gf
E=130gf G=320gf

Package Style
B=Bulk R=Reel

Specification

Items		Standard
Operating temperature range		-20℃ to +70℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	100V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:J:D:E:F:200,000 Cycles C:G:100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf D:70gf E:130gf G:320gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVCU11</p>	
2	<p>● TVCU12</p>	

5.2x5.2 SERIES

4.8x4.8 Low-profile SMT Tact Switch



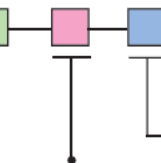
TACT SWITCH



HOW TO ORDER

T V C U

1 3



Operating Force
J=160gf
C=250gf

Package Style
B=Bulk
R=Reel

Specification

Items		Standard
Operating temperature range		-20℃ to +70℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	100V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:500,000 Cycles C:200,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.20 ± 0.05mm

Diagram

No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVCU13</p>	

5.2x5.2 SERIES

5.2x5.2 SMT Tact Switch



HOW TO ORDER

T V C M 1 5

Auxiliary Type
 □ =Black Base
 W=White Base
 L=LCP Black Base

Switch Height
 010=1.0mm(With Cover)
 008=0.8mm(Non Cover)

Operating Force
 A=90gf J=160gf
 C=250gf D=70gf
 E=130gf G=320gf

Package Style
 B=Bulk
 R=Reel

TACT SWITCH

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	E:J:200,000 Cycles C:100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf D:70gf E:130gf G:320gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVCM15-010</p>	
2	<p>● TVCM15-008</p>	

5.2x5.2 SERIES

5.2x5.2 SMT Tact Switch



HOW TO ORDER

T V C M [Color Swatches]

Serial Number
16=Square Cover
17=Round Cover

Auxiliary Type
□ =Black Base
W=White Base
L=Lcp Black Base

Attach Characteristics
□ =Dust-Proof
E=With Earth Terminal

Switch Height
015=1.5mm
016=1.6mm
017=1.7mm
020=2.0mm
025=2.5mm
035=3.5mm
043=4.3mm

Stem Color
L=Lcp White
F=PPA White
B=Black Y=Yellow
P=Nickel Plating

Operating Force
A=90gf J=160gf
C=250gf D=70gf
E=130gf G=320gf
H=400gf I=520gf

Package Style
B=Bulk R=Reel

Internal Dot Mark
□ =Standard
1=High Life Time
2=Terminal of 6.0mm

Specification

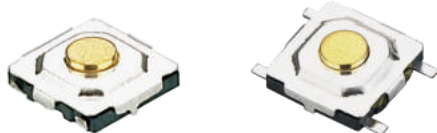
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A::J:D:E:200,000 Cycles C::G:H:I:100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf D:70gf E:130gf G:320gf H:400gf I:520gf
	Travel	0.25 ± 0.1mm

Diagram

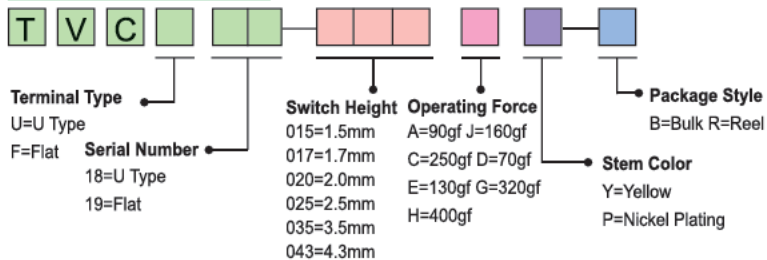
No.	Dimensions	Circuit Diagram	
		Pad Layout	
1	<p>● TVCM16</p>	H	
		1.5 1.7 2.0 ...	
2	<p>● TVCM17</p>	H	
		1.5 1.7 2.0 ...	

5.2x5.2 SERIES

5.2x5.2 With Ground Terminal Tact Switch



HOW TO ORDER



TACT SWITCH

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:J:D:E:200,000 Cycles C:G:H:100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf D:70gf E:130gf G:320gf H:400gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVCU18</p>	
2	<p>● TVCF19</p>	

6x6 SERIES

6.0x6.0 Through Hole Type Tact Switch



HOW TO ORDER

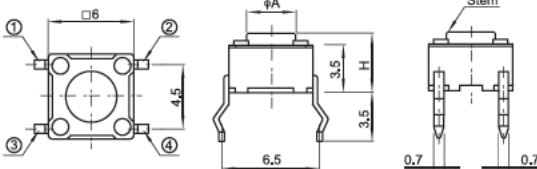
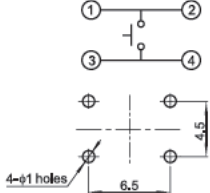
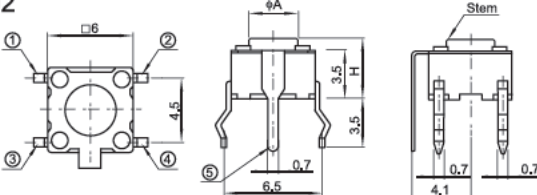
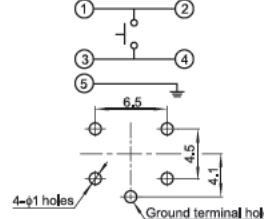
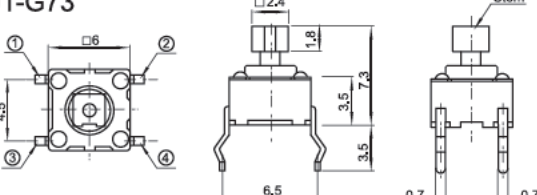
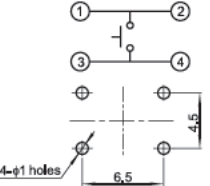
T V D P [Color Box] [Color Box] [Color Box] [Color Box] [Color Box]

Serial Number	Switch Height	Operating Force	Stem Color	Internal Dot Mark
01=Standard	043=4.3mm	A=90gf B=180gf	B=Black	□=Standard Life time
02=With Earth Terminal	050=5.0mm	C=250gf D=70gf	W=White	1=High Lifetime
	055=5.5mm	E=130gf J=160gf	R=Red	2=Brass Cover
	060=6.0mm	F=210gf G=320gf	N=Brown	3=High Lifetime & Brass Cover
	065=6.5mm	H=400gf I=520gf	S=Salmon	4=PET Cover
	070=7.0mm			5=High Lifetime & PET Cover
	073=7.3mm			6=Plastic Fits UL 94V-0
				7=High Lifetime & Plastic Fits UL 94V-0
				8=Non-rotating Stem
				9=Push No Sound

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:D:300,000 Cycles J:E:J:F:C:100,000 Cycles G:H:50,000 Cycles
Mechanical performance	Operating force	A:90gf D:70gf J:160gf E:130gf J:160gf F:210gf G:320gf H:400gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

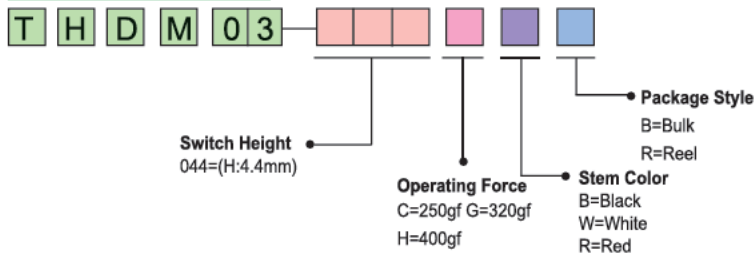
No.	Dimensions	Circuit Diagram Pad Layout															
1	<p>● TVDP01</p> 	<table><tr><th>H</th><th>A</th></tr><tr><td>4.3</td><td>3.5</td></tr><tr><td>5</td><td>3.5</td></tr><tr><td>7</td><td>3.3</td></tr><tr><td>9.5</td><td>3</td></tr><tr><td>13</td><td>3</td></tr><tr><td>17</td><td>3</td></tr></table>	H	A	4.3	3.5	5	3.5	7	3.3	9.5	3	13	3	17	3	
		H	A														
4.3	3.5																
5	3.5																
7	3.3																
9.5	3																
13	3																
17	3																
2	<p>● TVDP02</p> 	<table><tr><th>H</th><th>A</th></tr><tr><td>4.3</td><td>3.5</td></tr><tr><td>5</td><td>3.5</td></tr><tr><td>7</td><td>3.3</td></tr><tr><td>9.5</td><td>3</td></tr></table>	H	A	4.3	3.5	5	3.5	7	3.3	9.5	3					
		H	A														
4.3	3.5																
5	3.5																
7	3.3																
9.5	3																
3	<p>● TVDP01-G73</p> 	<table><tr><th>H</th><th>A</th></tr><tr><td>4.3</td><td>3.5</td></tr><tr><td>5</td><td>3.5</td></tr><tr><td>7</td><td>3.3</td></tr><tr><td>9.5</td><td>3</td></tr></table>	H	A	4.3	3.5	5	3.5	7	3.3	9.5	3					
		H	A														
4.3	3.5																
5	3.5																
7	3.3																
9.5	3																

6x6 SERIES

6.0x6.0 Bracket Shape Type Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-20℃ to +70℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	C:50,000 Cycles G:H:30,000 Cycles
Mechanical performance	Operating force	C:250gf G:320gf H:400gf
	Travel	0.30 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● THDM03</p>	

6x6 SERIES

6.0x6.0 Surface Mounting Tact Switch



HOW TO ORDER

T V D M [Color Code] [Terminal Type] [Switch Height] [Operating Force] [Stem Color] [Internal Dot Mark] [Package Style]

Terminal Type
 A=8.2mm
 B=9.2mm
 C=10.2mm
 D=8.6mm
 E=8.0mm
 F=9.0mm
 G=10.0mm

Switch Height
 043=4.3mm
 050=5.0mm
 055=5.5mm
 060=6.0mm
 065=6.5mm
 070=7.0mm
 G73=7.3mm

Operating Force
 A=90gf B=180gf
 C=250gf D=70gf
 E=130gf J=160gf
 G=320gf H=400gf
 I=520gf

Stem Color
 B=Black
 W=White
 R=Red
 D=Dark Gray
 N=Brown
 S=Salmon

Internal Dot Mark
 □=Standard Lifetime
 1=High Lifetime
 2=Brass Cover
 3=High Lifetime & Brass Cover
 4=PET Cover
 5=High Lifetime & PET Cover
 6=Plastic Fits UL94V-0
 7=High Lifetime&Plastic Fits UL94V-0
 8=Non-Floating stem
 9=Push No Sound

Package Style
 B=Bulk R=Reel

Serial Number
 04=standard
 25=With Earth Terminal

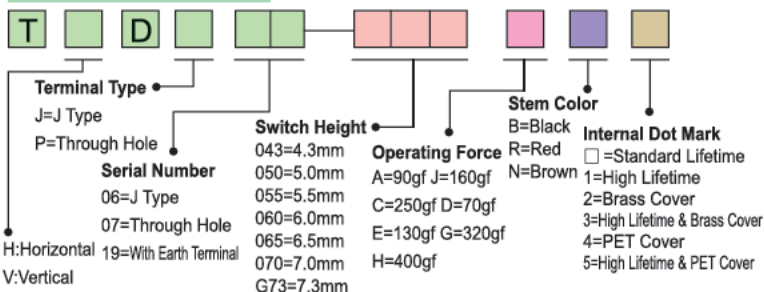
Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:D:300,000 Cycles E:J:C:100,000 Cycles G:H:50,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf D:70gf E:130gf G:320gf H:400gf I:520gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram														
		Pad Layout														
1	<div><div>● TVDM04</div><div></div><table><tr><th>H</th><th>A</th></tr><tr><td>4.3</td><td>3.5</td></tr><tr><td>5</td><td>3.5</td></tr><tr><td>7</td><td>3.3</td></tr><tr><td>9.5</td><td>3</td></tr><tr><td>13</td><td>3</td></tr><tr><td>17</td><td>3</td></tr></table></div>	H	A	4.3	3.5	5	3.5	7	3.3	9.5	3	13	3	17	3	<div></div>
H	A															
4.3	3.5															
5	3.5															
7	3.3															
9.5	3															
13	3															
17	3															
2	<div><div>● TVDM04-G73</div><div></div></div>	<div></div>														
3	<div><div>● TVDM25</div><div></div></div>	<div></div>														

6.0x6.0 Other Terminal Shape Tact Switch



Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:D:300,000 Cycles J:E:F:C:100,000 Cycles G:H:50,000 Cycles
Mechanical performance	Operating force	A:90gf D:70gf J:160gf E:130gf C:250gf G:320gf H:400gf
	Travel	0.25 ± 0.1mm

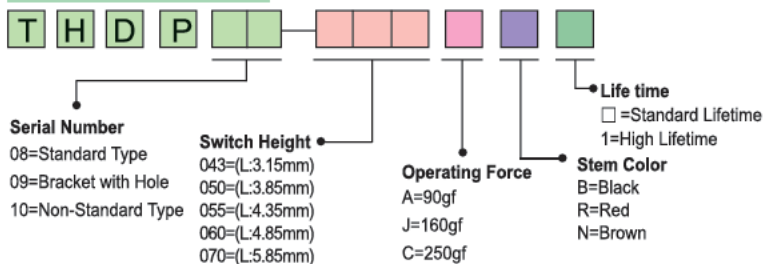
No.	Dimensions	Circuit Diagram Pad Layout														
		H	A													
1	<p>TVDJ06</p> <p>Top view: Square pad, 6±0.1 x 6±0.1 mm. Pin pitch 6±0.1 mm. Pad thickness 3.5±0.1 mm. Total height H±0.1 mm. Pin diameter φA. Pin length 7±0.15 mm. Pin width 3.1±0.2 mm. Max pin angle 0.4MAX.</p> <p>Side view: Pin diameter φA. Pin length 4.5±0.1 mm. Pin tip radius R0.35.</p> <p>Front view: Pin pitch 6±0.1 mm. Pin length 4.5±0.1 mm. Pin tip radius R0.35.</p> <table border="1"> <thead> <tr> <th>H</th> <th>A</th> </tr> </thead> <tbody> <tr><td>4.3</td><td>φ3.5</td></tr> <tr><td>5.0</td><td>φ3.4</td></tr> <tr><td>5.5</td><td>φ3.4</td></tr> <tr><td>6.0</td><td>φ3.3</td></tr> <tr><td>6.5</td><td>φ3.3</td></tr> <tr><td>7.0</td><td>φ3.3</td></tr> </tbody> </table>	H	A	4.3	φ3.5	5.0	φ3.4	5.5	φ3.4	6.0	φ3.3	6.5	φ3.3	7.0	φ3.3	<p>Circuit diagram: Two pins connected by a switch symbol.</p> <p>Pad layout: Square pad, 6±0.1 x 6±0.1 mm. Pin pitch 6±0.1 mm. Pad thickness 3.5±0.1 mm. Total height H±0.1 mm. Pin diameter φA. Pin length 7±0.15 mm. Pin width 3.1±0.2 mm. Max pin angle 0.4MAX.</p>
H	A															
4.3	φ3.5															
5.0	φ3.4															
5.5	φ3.4															
6.0	φ3.3															
6.5	φ3.3															
7.0	φ3.3															
2	<p>THDP07</p> <p>Top view: Square pad, 6±0.1 x 6±0.1 mm. Pin pitch 6±0.1 mm. Pad thickness 3.5±0.1 mm. Total height H±0.1 mm. Pin diameter φA. Pin length 4.5±0.1 mm. Pin width 3.1±0.2 mm. Max pin angle 0.4MAX.</p> <p>Side view: Pin diameter φA. Pin length 4.5±0.1 mm. Pin tip radius R0.35.</p> <p>Front view: Pin pitch 6±0.1 mm. Pin length 4.5±0.1 mm. Pin tip radius R0.35.</p> <table border="1"> <thead> <tr> <th>H</th> <th>A</th> </tr> </thead> <tbody> <tr><td>4.3</td><td>φ3.5</td></tr> <tr><td>5.0</td><td>φ3.4</td></tr> <tr><td>5.5</td><td>φ3.4</td></tr> <tr><td>6.0</td><td>φ3.3</td></tr> <tr><td>6.5</td><td>φ3.3</td></tr> <tr><td>7.0</td><td>φ3.3</td></tr> </tbody> </table>	H	A	4.3	φ3.5	5.0	φ3.4	5.5	φ3.4	6.0	φ3.3	6.5	φ3.3	7.0	φ3.3	<p>Circuit diagram: Two pins connected by a switch symbol.</p> <p>Pad layout: Square pad, 6±0.1 x 6±0.1 mm. Pin pitch 6±0.1 mm. Pad thickness 3.5±0.1 mm. Total height H±0.1 mm. Pin diameter φA. Pin length 4.5±0.1 mm. Pin width 3.1±0.2 mm. Max pin angle 0.4MAX.</p>
H	A															
4.3	φ3.5															
5.0	φ3.4															
5.5	φ3.4															
6.0	φ3.3															
6.5	φ3.3															
7.0	φ3.3															
3	<p>THDP19</p> <p>Top view: Square pad, 8.00±0.1 x 8.00±0.1 mm. Pin pitch 8.00±0.1 mm. Pad thickness 3.80±0.1 mm. Total height H±0.1 mm. Pin diameter φA. Pin length 4.50±0.1 mm. Pin width 1.50 mm. Pin tip radius R0.35. Max pin angle 0.5MAX.</p> <p>Side view: Pin diameter φA. Pin length 4.50±0.1 mm. Pin tip radius R0.35.</p> <p>Front view: Pin pitch 8.00±0.1 mm. Pin length 4.50±0.1 mm. Pin tip radius R0.35.</p> <table border="1"> <thead> <tr> <th>H</th> <th>A</th> </tr> </thead> <tbody> <tr><td>4.3</td><td>φ3.5</td></tr> <tr><td>5.0</td><td>φ3.4</td></tr> <tr><td>5.5</td><td>φ3.4</td></tr> <tr><td>6.0</td><td>φ3.3</td></tr> <tr><td>6.5</td><td>φ3.3</td></tr> <tr><td>7.0</td><td>φ3.3</td></tr> </tbody> </table>	H	A	4.3	φ3.5	5.0	φ3.4	5.5	φ3.4	6.0	φ3.3	6.5	φ3.3	7.0	φ3.3	<p>Circuit diagram: Two pins connected by a switch symbol.</p> <p>Pad layout: Square pad, 8.00±0.1 x 8.00±0.1 mm. Pin pitch 8.00±0.1 mm. Pad thickness 3.80±0.1 mm. Total height H±0.1 mm. Pin diameter φA. Pin length 4.50±0.1 mm. Pin width 1.50 mm. Pin tip radius R0.35. Max pin angle 0.5MAX.</p>
H	A															
4.3	φ3.5															
5.0	φ3.4															
5.5	φ3.4															
6.0	φ3.3															
6.5	φ3.3															
7.0	φ3.3															

6x6 SERIES

6.0x6.0 Bracket Shape Type Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:300,000 Cycles J: C:100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

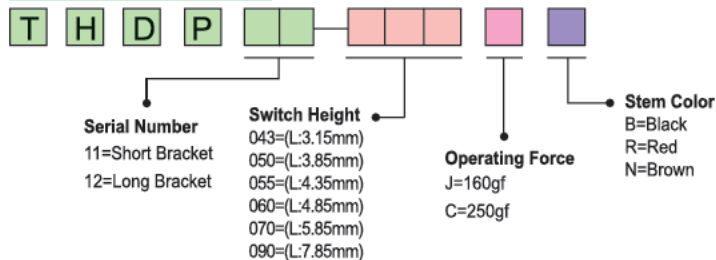
No.	Dimensions	Circuit Diagram Pad Layout												
1	<p>● THDP08</p> <table><tr><th>L</th><th>A</th></tr><tr><td>3.15</td><td>3.5</td></tr><tr><td>3.85</td><td>3.5</td></tr><tr><td>5.85</td><td>3.3</td></tr><tr><td>8.35</td><td>3</td></tr><tr><td>15.85</td><td>3</td></tr></table>	L	A	3.15	3.5	3.85	3.5	5.85	3.3	8.35	3	15.85	3	
L	A													
3.15	3.5													
3.85	3.5													
5.85	3.3													
8.35	3													
15.85	3													
2	<p>● THDP09</p> <table><tr><th>L</th><th>A</th></tr><tr><td>3.15</td><td>3.5</td></tr><tr><td>3.85</td><td>3.5</td></tr><tr><td>5.85</td><td>3.3</td></tr><tr><td>8.35</td><td>3</td></tr><tr><td>15.85</td><td>3</td></tr></table>	L	A	3.15	3.5	3.85	3.5	5.85	3.3	8.35	3	15.85	3	
L	A													
3.15	3.5													
3.85	3.5													
5.85	3.3													
8.35	3													
15.85	3													
3	<p>● THDP10</p> <table><tr><th>L</th><th>A</th></tr><tr><td>3.15</td><td>3.5</td></tr><tr><td>3.85</td><td>3.5</td></tr><tr><td>5.85</td><td>3.3</td></tr><tr><td>8.35</td><td>3</td></tr><tr><td>15.85</td><td>3</td></tr></table>	L	A	3.15	3.5	3.85	3.5	5.85	3.3	8.35	3	15.85	3	
L	A													
3.15	3.5													
3.85	3.5													
5.85	3.3													
8.35	3													
15.85	3													

6x6 SERIES

6.0x6.0 Other Bracket Shape Type Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:C:100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout												
1	<div><div><p>● THDP11</p><table><tr><th>L</th><th>A</th></tr><tr><td>3.15</td><td>3.5</td></tr><tr><td>3.85</td><td>3.5</td></tr><tr><td>5.85</td><td>3.3</td></tr><tr><td>8.35</td><td>3</td></tr><tr><td>15.85</td><td>3</td></tr></table></div></div>	L	A	3.15	3.5	3.85	3.5	5.85	3.3	8.35	3	15.85	3	
L	A													
3.15	3.5													
3.85	3.5													
5.85	3.3													
8.35	3													
15.85	3													
2	<div><div><p>● THDP12</p><table><tr><th>L</th><th>A</th></tr><tr><td>3.15</td><td>3.5</td></tr><tr><td>3.85</td><td>3.5</td></tr><tr><td>5.85</td><td>3.3</td></tr><tr><td>8.35</td><td>3</td></tr><tr><td>15.85</td><td>3</td></tr></table></div></div>	L	A	3.15	3.5	3.85	3.5	5.85	3.3	8.35	3	15.85	3	
L	A													
3.15	3.5													
3.85	3.5													
5.85	3.3													
8.35	3													
15.85	3													

6x6 SERIES

6.0x6.0 SMT & Bracket Shape Type Tact Switch



HOW TO ORDER

T H D M 1 3

Attach Characteristics

A: Cover with pilot of 3.0mm
B: Cover with pilot of 1.3mm

Switch Height

043=(L:3.15mm)
050=(L:3.85mm)
055=(L:4.35mm)
060=(L:4.85mm)
065=(L:5.35mm)
070=(L:5.85mm)

Operating Force

A=90gf
J=160gf
C=250gf

Stem Color

B=Black
R=Red
D=Dark Gray

Internal Dot Mark

□ =Standard

Package Style

B=Bulk R=Reel

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:300,000 Cycles J:C:100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

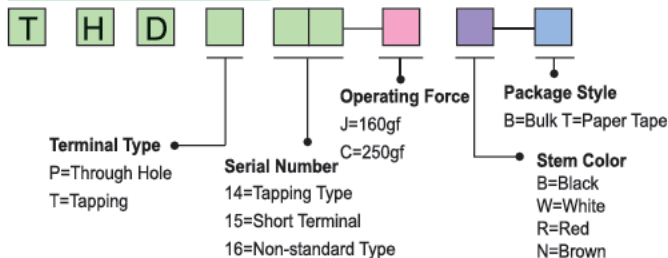
No.	Dimensions	Circuit Diagram Pad Layout		
		L	A	B
1	● THDM13	3.15	3.5	1.3
		3.85	3.5	3.0
		4.35	3.3	
		4.85	3.3	
		5.35	3.3	
		5.85	3.3	

6x6 SERIES

6.0x6.0 Radial Taping Type Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:300,000 Cycles J:C:100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

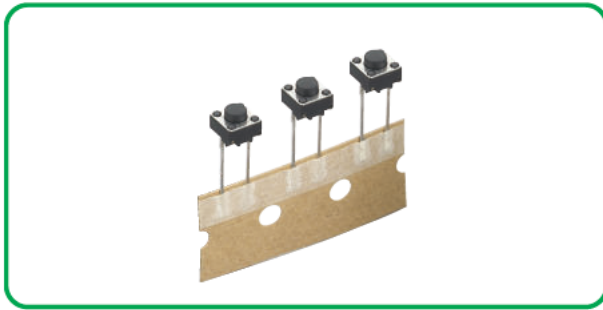
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● THDT14</p>	
2	<p>● THDP15</p>	
3	<p>● THDP16</p>	

6x6 SERIES

6.0x6.0 Radial Taping Type Tact Switch



TACT SWITCH



HOW TO ORDER

T V D T 1 7

Terminal Length

- = Standard Terminal
- A=3.5mm
- B=4.5mm
- C=5.5mm
- D=4.0mm

Switch Height

- 043=4.3mm
- 050=5.0mm
- 055=5.5mm
- 060=6.0mm
- 065=6.5mm
- 070=7.0mm

Operating Force

- A=90gf
- B=160gf
- C=250gf
- E=130gf

Stem Color

- B=Black
- W=White
- R=Red
- N=Brown

Package Style

- B=Bulk T=Paper Tape

Internal Dot Mark

- = Standard Life time
- 1=High Lifetime
- 2=Brass Cover
- 3=High Lifetime & Brass Cover
- 4=PET Cover
- 5=High Lifetime & PET Cover

Specification

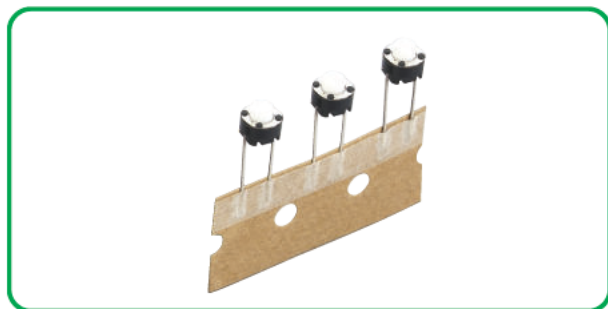
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:300,000 Cycles E:J:C:100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf E:130gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout													
1	● TVDT17	<table><tr><th>H</th><th>A</th></tr><tr><td>4.3</td><td>3.5</td></tr><tr><td>5.0</td><td>3.5</td></tr><tr><td>7.0</td><td>3.3</td></tr><tr><td>7.3</td><td>3.3</td></tr><tr><td>9.5</td><td>3.0</td></tr></table>	H	A	4.3	3.5	5.0	3.5	7.0	3.3	7.3	3.3	9.5	3.0	<p>① ——— ②</p> <p>2-φ1 holes</p> <p>5</p>
			H	A											
			4.3	3.5											
			5.0	3.5											
			7.0	3.3											
			7.3	3.3											
			9.5	3.0											

6x6 SERIES

6.0x6.0 Radial Taping Type Tact Switch



HOW TO ORDER

T V D T 1 8

Switch Height
043=4.3mm
050=5.0mm

Operating Force
A=90gf
J=160gf
C=250gf

Package Style
B=Bulk
T=Paper Tape

Stem Color
B=Black
W=White
R=Red
N=Brown

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:300,000 Cycles J:C:100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

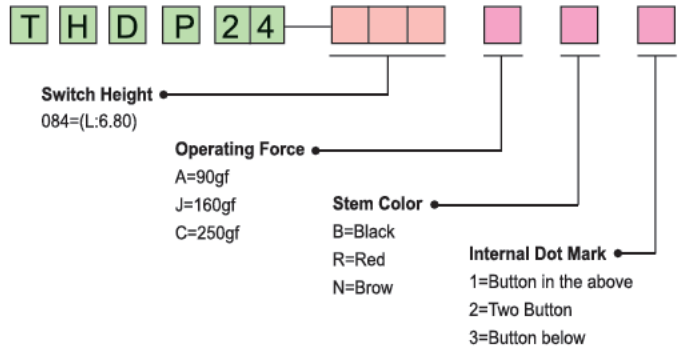
No.	Dimensions	Circuit Diagram Pad Layout							
1	● TVDT18	<table><tr><th>H</th><th>A</th></tr><tr><td>4.3</td><td>3.5</td></tr><tr><td>5</td><td>3.5</td></tr></table>	H	A	4.3	3.5	5	3.5	
		H	A						
		4.3	3.5						
5	3.5								

6x6 SERIES

9.1x7.3 Multiple Type Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles min
Mechanical performance	Operating force	A:90gf J:160gf C:250gf
	Travel	0.20 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● THDP24</p>	

6x6 SERIES

6.0x6.0 Long Travel Tact Switch

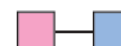


New

HOW TO ORDER

T V D U 21

0 5 0



Switch Height
050=5.0mm

Operating Force
C=250gf
J=160gf

Package Style
B=Bulk
R=Reel

TACT SWITCH

Specification

Items		Standard
Operating temperature range		-40℃ to +85℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:C:100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	1.30 ± 0.1mm

Diagram

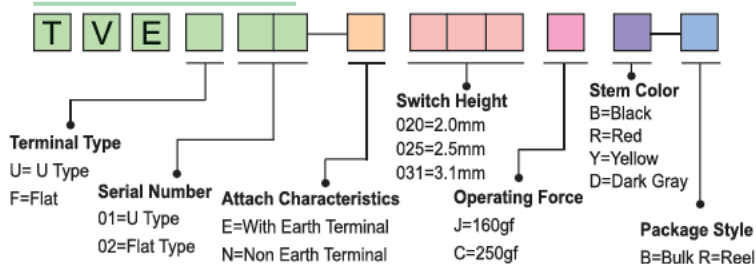
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVDU21</p>	

6.2x6.2 SERIES

6.2x6.2 Flat & U-Type Terminals Type Tact Switch



HOW TO ORDER



Specification

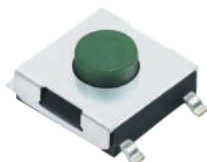
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:500,000 Cycles C:300,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVEU01</p> <p>H 3.1 2.5 2.0</p>	
2	<p>● TVEF02</p> <p>H 3.1 2.5 2.0</p>	

6.2x6.2 SERIES

6.2x6.2 Dust-Proof Type Tact Switch



HOW TO ORDER

T V E M 04

Attach Characteristics

E=With Earth Terminal
N=Non Earth Terminal

Switch Height
031=3.1mm
050=5.0mm

Operating Force
J=160gf
C=250gf

Stem Color
B=Black
R=Red
G=Green
U=Blue

Package Style
B=Bulk R=Reel

TACT SWITCH

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:500,000 Cycles C:300,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout	
1	● TVEM04	H	
		3.1	
		5.0	

6.2x6.2 SERIES

6.2x6.2 SMT Terminals Type Tact Switch



HOW TO ORDER

T V E M 0 5

Attach Characteristics

E=With Earth Terminal

N=Non Earth Terminal

Switch Height

025=2.5mm

031=3.1mm

034=3.4mm

Operating Force

A=90gf J=160gf

C=250gf D=70gf

Stem Color

B=Black

R=Red

Package Style

B=Bulk

R=Reel

Specification

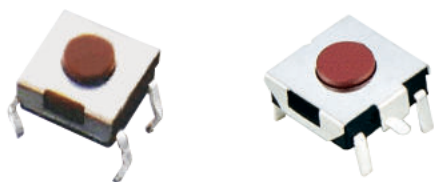
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:J:C:D:100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf D:70gf
	Travel	0.25 ± 0.1mm

Diagram

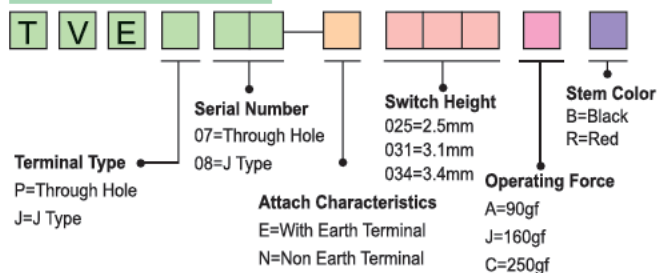
No.	Dimensions	Circuit Diagram Pad Layout				
1	<p>● TVEM05-N</p> <table><tr><th>H</th></tr><tr><td>3.4</td></tr><tr><td>3.1</td></tr><tr><td>2.5</td></tr></table>	H	3.4	3.1	2.5	
H						
3.4						
3.1						
2.5						
2	<p>● TVEM05-E</p> <table><tr><th>H</th></tr><tr><td>3.4</td></tr><tr><td>3.1</td></tr><tr><td>2.5</td></tr></table>	H	3.4	3.1	2.5	
H						
3.4						
3.1						
2.5						

6.2x6.2 SERIES

6.2x6.2 Through Hole Terminals Type Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	A:J:C=100,000 Cycles
Mechanical performance	Operating force	A:90gf J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

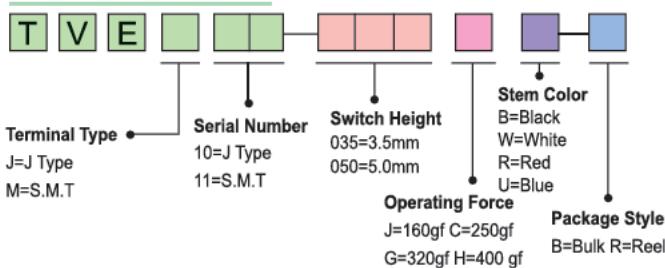
No.	Dimensions	Circuit Diagram	
		Pad Layout	
1	<p>● TVEP07</p>	<p>H</p> <p>3.4</p> <p>3.1</p> <p>2.5</p>	
2	<p>● TVEJ08</p>	<p>H</p> <p>3.4</p> <p>3.1</p> <p>2.5</p>	

6.2x6.2 SERIES

6.2x6.2 With Middle-travel (SMT)Type Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:C:200,000 Cycles G:H:100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf G:320gf H:400gf
	Travel	0.35 ± 0.1mm

Diagram

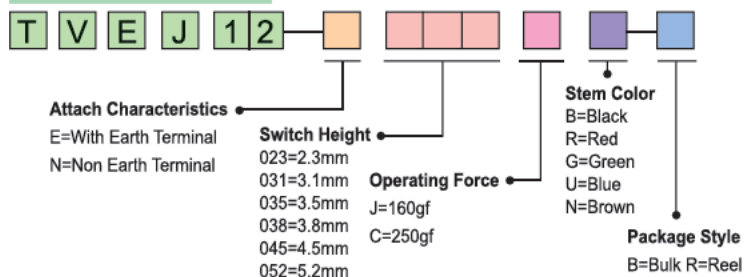
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVEJ10</p>	
2	<p>● TVEM11</p>	

6.2x6.2 SERIES

6.2x6.2 (J SMT)Series With Washable Type Tact Switch



HOW TO ORDER



TACT SWITCH

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:200,000 Cycles C:100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVEJ12-□ 031</p>	
2	<p>● TVEJ12-□ 052</p>	
3	<p>● TVEJ12-□ 023</p>	

12x12 SERIES

12.0x12.0 Flat Stem With Stable Operation Feeling Tact Switch



HOW TO ORDER

T V G P 0 1

Attach Characteristics
 A=Base With Pilot
 □=Non Pilot

Switch Height
 043=4.3mm
 050=5.0mm
 060=6.0mm
 070=7.0mm
 G73=7.3mm(Square)

Operating Force
 J=160gf
 C=250gf

Stem Color
 B=Black
 R=Red
 Y=Yellow
 N=Brown

Internal Dot Mark
 □=Standard Lifetime
 1=High Lifetime
 2=Brass cover
 3=High Lifetime&Brass Cover
 4=PET Cover
 5=High Lifetime & PET Cover
 6=Base Without Slot

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:200,000 Cycles C:100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.35 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVGP01</p>	
2	<p>● TVGP01- □ G73</p>	
3	<p>● TVGP01-A</p>	

12.0x12.0 Flat Stem With Stable Operation Feeling Tact Switch



Attach Characteristics
 A=Base With Pilot S
☐ =Non Pilot 0

Switch Height
043=4.3mm
050=5.0mm
060=6.0mm
070=7.0mm
G73=7.3mm(S)

Operating
J=160gf
C=250gf

Stem Color
B=Black
R=Red
N=Brown

Package Style
B=Bulk
R=Reel
U=Tube

Internal Dot Mark
☐ =Standard Lifetime
 1=High Lifetime
 6=Base Without Slot

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:200,000 Cycles C:100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.35 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout	
1	● TVGM03 	H	
		4.3	
		5.0	
		6.0	
		7.0	

WASHABLE SERIES

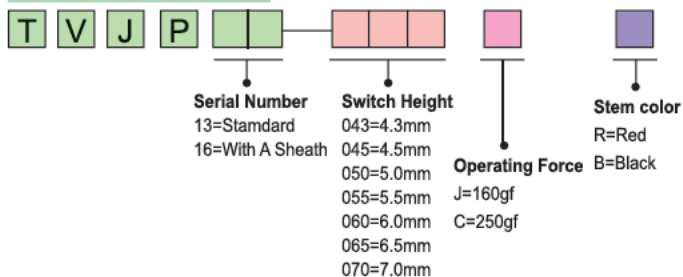
6.0x6.0 Washable Tact Switch



TACT SWITCH



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:C:100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

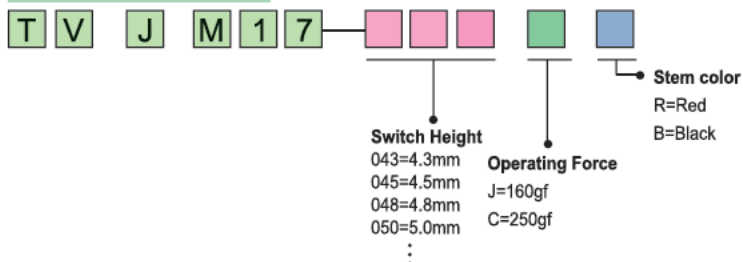
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVJP13</p> <p>H 4.3 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5</p>	
2	<p>● TVJP16</p> <p>H 8 8.5 9 9.5 ...</p>	

WATERPROOF SERIES

6.0x6.0 Washable Tact Switch



HOW TO ORDER



TACT SWITCH

Specification

Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	100mA. 30V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	AC500V(50Hz) for 1 min.
	Contact resistance	50mΩ max.
Durability	Lifetime	J:C:100.000 Cycles
Mechanical performance	Operating force	J:160gf C:250g
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TVJM17</p> <p>Top view dimensions: $\phi 3.4$, 8.7, 3.7, H, 0.3, 6.1, 0.7, 4.5</p> <p>Side view dimensions: 4.5, 0.7</p> <p>Bottom view dimensions: 6.1</p>	<p>Circuit diagram: 1-2, 3-4</p> <p>Pad layout dimensions: 1.5, 1.5, 8.5, 4.5</p>

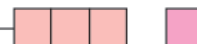
WASHABLE SERIES

8.0x8.0 Washable Tact Switch



HOW TO ORDER

T V J P 1 4



Switch Height

065=6.5mm

070=7.0mm

075=7.5mm

080=8.0mm

085=8.5mm

Operating Force

J=160gf

C=250gf

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:C:100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

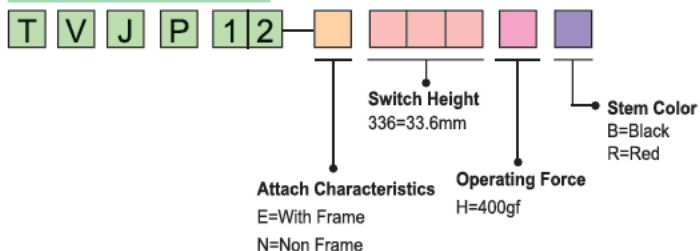
No.	Dimensions	Circuit Diagram Pad Layout	
		Pad Layout	
1	<p>● TVJP14</p>	H	
		6.5	
		7.0	
		7.5	
		8.0	
		8.5	
		9.0	
		9.5	
		11.0	
		12.0	
		13.0	

WASHABLE SERIES

10.0x10.0 Washable Tact Switch



HOW TO ORDER



Specification

Items		Standard	Items		Standard
Operating temperature range		-20℃ to +70℃	Durability	Lifetime	100,000 Cycles Min
Electrical performance	Rating	50mA. 12V DC	Mechanical performance	Operating force	H:400gf ± 70gf
	Insulation resistance	100MΩ min. 100V DC		Travel	0.40 ± 0.2mm
	Dielectric strength	250V AC for 1 min.			
	Contact resistance	100mΩ max.			

Water Resisting Performance

Items	Model	Vertical type	Horizontal type
Temperature of water		60℃	60℃
Depth of water		10cm	10cm
Immersion duration		240h	1h

Diagram

No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVJP12-N</p>	
2	<p>● TVJP12-E</p>	

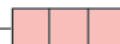
WASHABLE SERIES

10.0x10.0 Washable Tact Switch



HOW TO ORDER

T V J P 1 1



Switch Height
130=13.0mm
150=15.0mm
232=23.2mm



Stem Color
B=Black
R=Red
Operating Force
J=160gf
C=250gf

Specification

Items		Standard
Operating temperature range		-40℃ to +90℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	500mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.30 ± 0.1mm

Water Resisting Performance

Temperature of water	60℃
Depth of water	10cm
Immersion duration	240h

Diagram

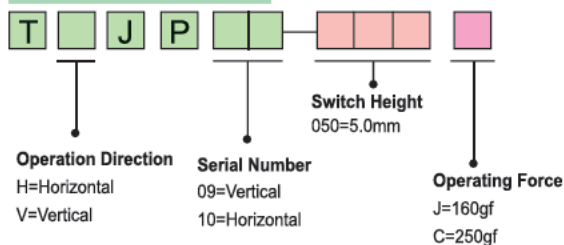
No.	Dimensions	Circuit Diagram Pad Layout									
1	● TVJP11	<table><tr><th>H</th><th>A</th></tr><tr><td>13</td><td>3.8</td></tr><tr><td>15</td><td>3.5</td></tr><tr><td>23.2</td><td>3.5</td></tr></table>	H	A	13	3.8	15	3.5	23.2	3.5	
	H	A									
	13	3.8									
	15	3.5									
	23.2	3.5									

WASHABLE SERIES

10.0x10.0 Washable Tact Switch



HOW TO ORDER



Specification

Items		Standard	Items		Standard
Operating temperature range		-40℃ to +90℃	Durability	Lifetime	100,000 Cycles Min
Electrical performance	Rating	50mA. 12V DC	Mechanical performance	Operating force	J:160gf C:250gf
	Insulation resistance	100MΩ min. 100V DC		Travel	0.30 ± 0.1mm
	Dielectric strength	250V AC for 1 min.			
	Contact resistance	500mΩ max.			

Water Resisting Performance

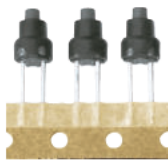
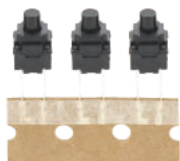
Items	Model	Vertical type	Horizontal type
Temperature of water		60℃	60℃
Depth of water		10cm	10cm
Immersion duration		240h	1h

Diagram

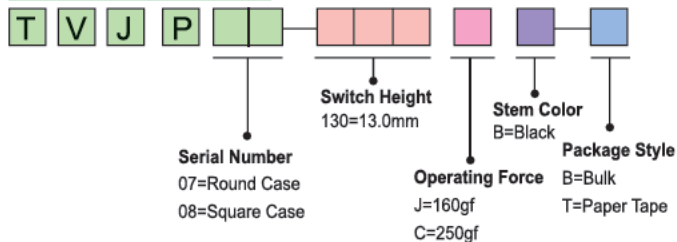
No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVJP09</p>	

WASHABLE SERIES

8.0x8.0 Washable Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-40℃ to +90℃
Electrical performance	Rating	50mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.

Items		Standard
Durability	Lifetime	100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Water Resisting Performance

Temperature of water	60℃
Depth of water	10cm
Immersion duration	240h

Diagram

No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TVJP07</p>	
2	<p>● TVJP08</p>	

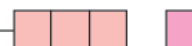
WASHABLE SERIES

12x12 Washable Tact Switch



HOW TO ORDER

T V J P 1 5



Switch Height

065=6.5mm
070=7.0mm
075=7.5mm
080=8.0mm
085=8.5mm

Operating Force

J=160gf
C=250gf

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	J:C:100,000 Cycles
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout	
1	<div>● TVJP15</div> <div></div> <div></div>	H	
		6.5	
		7.0	
		7.5	
		8.0	
		8.5	
		9.0	
		9.5	
		10.0	
		11.0	
12.0			

02

MULTI-FUNCTION SWITCH SERIES

Features:

- Sharp click feel with a positive tactile tactile feedback.
- Ultraminiature and light weight structure suitable for high density mounting, economical but reliable.
- Insert molding in the contact with special treatment prevents flux build-up during soldering and permits auto-dipping.

Applications:

- Cameras, digital still cameras.
- Digital video camcorders.
- Compact portable devices.
- For operating the other multifunctional electronic devices



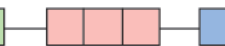
MULTI FUNCTION SERIES

6.2x6.5 Double Action Type Tact Switch



HOW TO ORDER

T M H F 0 7



Switch Height

038=3.8mm

020=2.0mm(Non Stem)

Package Style

B=Bulk

R=Reel

Specification

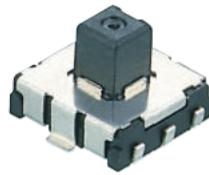
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	10,000 Cycles
Mechanical performance	Operating force	1 st 100 ± 40gf 2 st 250 ± 80gf
	Travel	1 st 0.3 ± 0.1mm 2 st 0.55 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TMHF07</p>	

MULTI FUNCTION SERIES

6.1x6.5 4-direction & center-push Tact Switch



HOW TO ORDER

T M H U 1 2

Attach Characteristics
 □ =Base With Pilot
 N=Non Pilot



Stem Color
 B=Black
 N=Brow

Stem Type
 A=Stem Without a Slot
 B=Stem With a Slot

Package Style
 B=Bulk R=Reel

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	4-direction 200mΩ max Center push 100mΩ max.
Durability	Lifetime	50,000 Cycles
Mechanical performance	Operating force	4-direction 140 ± 50gf Center push 220 ± 80gf
	Travel	4-direction 5° ± 2° Center push 0.20 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram																																								
		Pad Layout																																								
1	<p>● TMHU12</p> <table><tr><td>A</td><td>①</td><td>②</td><td>③</td><td>④</td><td>⑤</td><td>⑥</td><td>⑦</td></tr><tr><td>B</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>C</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>E</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	A	①	②	③	④	⑤	⑥	⑦	B								C								D								E								<p>① SW1 ② SW2 ③ SW3 ④ SW4</p> <p>⑤ SW5</p> <p>① SW5 ②</p> <p>2-φ0.85holes</p> <p>1.8</p> <p>3.9</p> <p>6</p> <p>8.1</p> <p>3.6</p> <p>5.8</p> <p>8.1</p> <p>1</p> <p>No circuit mode area</p>
A	①	②	③	④	⑤	⑥	⑦																																			
B																																										
C																																										
D																																										
E																																										

MULTI FUNCTION SERIES

7.5x7.5 4-direction & center-push Tact Switch



HOW TO ORDER

T M H U 1 3

Attach Characteristics
 □ =Base With Pilot
 N=Non Pilot

Stem Color
 B=Black
 W=White

Package Style
 B=Bulk
 R=Reel

Specification

Items		Standard	
Operating temperature range		-30℃ to +85℃	
Electrical performance	Rating	50mA. 12V DC	
	Insulation resistance	100MΩ min. 100V DC	
	Dielectric strength	250V AC for 1 min.	
	Contact resistance	500mΩ max.	
Durability	Lifetime	50,000 Cycles	
Mechanical performance	Operating force	4-direction 160 ± 50gf	Center push 280 ± 100gf
	Travel	4-direction 0.20 ± 0.1mm	Center push 0.15 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TMHU13</p>	

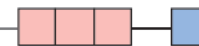
MULTI FUNCTION SERIES

10.0x10.4 4-direction & center-push Tact Switch



HOW TO ORDER

T M H M 1 4



Package Style

B=Bulk

R=Reel

Switch Height
050=5.0mm

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	20mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	50,000 Cycles
Mechanical performance	Operating force	4-direction 160 ± 80gf Center push 300 ± 150gf
	Travel	4-direction 4° ± 2° Center push 0.20 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● TMHM14</p>	

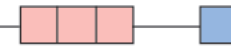
MULTI FUNCTION SERIES

10.0x10.7 4-direction & center-push Tact Switch



HOW TO ORDER

T M H M 1 6



• **Switch Height**
050=5.0mm
065=6.5mm
090=9.0mm

• **Package Style**
B=Bulk R=Reel

Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	20mA, 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	50,000 Cycles
Mechanical performance	Operating force	4-direction 160 ± 80gf Center push 300 ± 150gf
	Travel	4-direction 4° ± 2° Center push 0.20 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● TMHM16</p>	

MULTI FUNCTION SERIES

Lever and Push Operation Type Switch Tact Switch



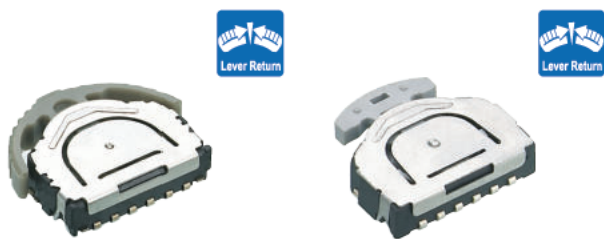
Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	10mA, 5V DC
	Output voltage	1V max. at 1mA 5V DC
	Contact resistance	100mΩ max.
	Lifetime	100,000 Cycles
Durability	Operating force	Lever portion 70 ± 40gf Push portion 200 ± 100gf
Mechanical performance	Travel	4-direction -25° -0° - +25°
		Push portion 0.90 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram																								
		Pad Layout																								
1	<p>● TMHU26</p> <table><tr><th>Angle</th><th>25°</th><th>CW</th><th>0°</th><th>CCW</th><th>25°</th></tr><tr><td>Terminal ①</td><td>(18°)</td><td></td><td></td><td></td><td>(18°)</td></tr><tr><td>Terminal ②</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Terminal ③</td><td></td><td></td><td></td><td></td><td></td></tr></table>	Angle	25°	CW	0°	CCW	25°	Terminal ①	(18°)				(18°)	Terminal ②						Terminal ③						
Angle	25°	CW	0°	CCW	25°																					
Terminal ①	(18°)				(18°)																					
Terminal ②																										
Terminal ③																										
2	<p>● TMHU27</p> <table><tr><th>Angle</th><th>25°</th><th>CW</th><th>0°</th><th>CCW</th><th>25°</th></tr><tr><td>Terminal ①</td><td>(18°)</td><td></td><td></td><td></td><td>(18°)</td></tr><tr><td>Terminal ②</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Terminal ③</td><td></td><td></td><td></td><td></td><td></td></tr></table>	Angle	25°	CW	0°	CCW	25°	Terminal ①	(18°)				(18°)	Terminal ②						Terminal ③						
Angle	25°	CW	0°	CCW	25°																					
Terminal ①	(18°)				(18°)																					
Terminal ②																										
Terminal ③																										

Lever and Push Operation Type Switch Tact Switch



Lever and Push Operation Type Switch Tact Switch



Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	10mA. 5V DC
	Output voltage	1V max. at 1mA 5V DC
	Contact resistance	100mΩ max.
	Lifetime	100,000 Cycles
Durability	Operating force	Lever portion 70 ± 40gf Push portion 250 ± 100gf
Mechanical performance	Travel	4-direction -20° — 0° — +20°
		Push portion 0.70 ± 0.1mm

Diagram

[illegible]

LIGHT SWITCH SERIES

03

Features:

- With a fixed stand and covers in many kinds of structure and color;
- High sensitive sounds silvery, feeling and rythm are perfect.
- It can be mounted with any color LED and bouble colors or 3 colors LED according to preference.
- It can be assembled in different ways: DIP & SMT, with pushbutton an tact for operating.
- We have got some patent for new project.

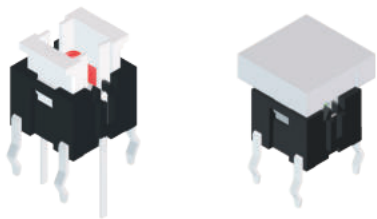
Applications:

The switches work with all kinds of electrical appliances, such as audio apparatus, office equipment, instruments and meter equipment, TV, DVD, and so on.

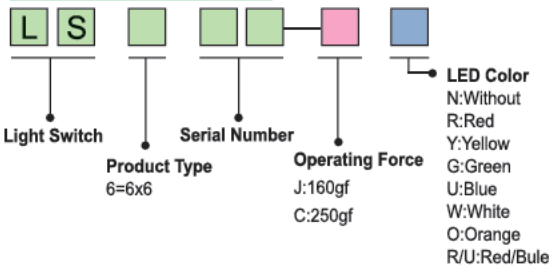


LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

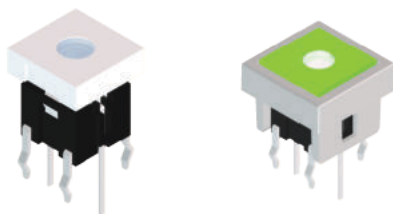
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA. 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

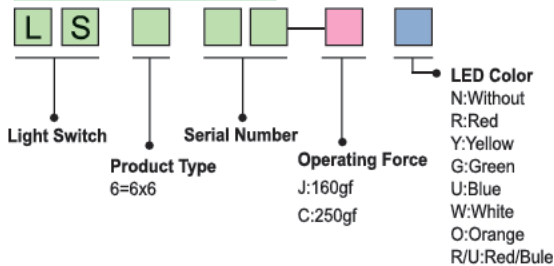
No.	Dimensions	Circuit Diagram Pad Layout																															
1	<div><div>● LS601</div><div></div><table><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF</th></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>Noml Max 3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.8V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.8V/2.4V</td></tr></table></div> <div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>	Color	VR	IF	Recommended Operating	IF	White	DC5V	20mA	20mA	Noml Max 3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.8V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.8V/2.4V	2	<div><div>● LS602</div><div></div></div> <div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
Color	VR	IF	Recommended Operating	IF																													
White	DC5V	20mA	20mA	Noml Max 3.0V/3.6V																													
Red	DC5V	20mA	20mA	1.7V/2.4V																													
Yellow	DC5V	20mA	20mA	1.8V/2.4V																													
Blue	DC5V	20mA	20mA	3.0V/3.6V																													
Green	DC5V	20mA	20mA	1.8V/2.4V																													

LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

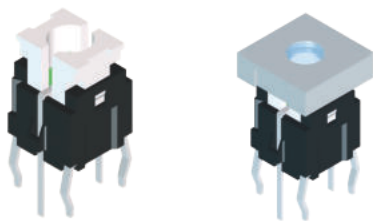
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA. 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

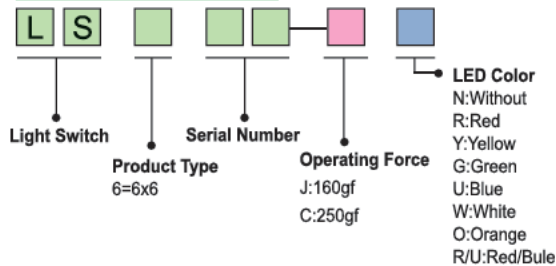
No.	Dimensions	Circuit Diagram Pad Layout																														
1	<p>● LS603</p> <table><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Noml Max</th></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.8V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.8V/2.4V</td></tr></table>	Color	VR	IF	Recommended Operating	IF Noml Max	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.8V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.8V/2.4V	<p>Circuit Diagram</p> <p>PCB Layout Recommended</p>
Color	VR	IF	Recommended Operating	IF Noml Max																												
White	DC5V	20mA	20mA	3.0V/3.6V																												
Red	DC5V	20mA	20mA	1.7V/2.4V																												
Yellow	DC5V	20mA	20mA	1.8V/2.4V																												
Blue	DC5V	20mA	20mA	3.0V/3.6V																												
Green	DC5V	20mA	20mA	1.8V/2.4V																												
2	<p>● LS604</p> <table><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Noml Max</th></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.8V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.8V/2.4V</td></tr></table>	Color	VR	IF	Recommended Operating	IF Noml Max	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.8V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.8V/2.4V	<p>Circuit Diagram</p> <p>PCB Layout Recommended</p>
Color	VR	IF	Recommended Operating	IF Noml Max																												
White	DC5V	20mA	20mA	3.0V/3.6V																												
Red	DC5V	20mA	20mA	1.7V/2.4V																												
Yellow	DC5V	20mA	20mA	1.8V/2.4V																												
Blue	DC5V	20mA	20mA	3.0V/3.6V																												
Green	DC5V	20mA	20mA	1.8V/2.4V																												

LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

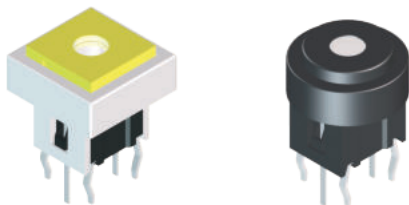
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA, 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

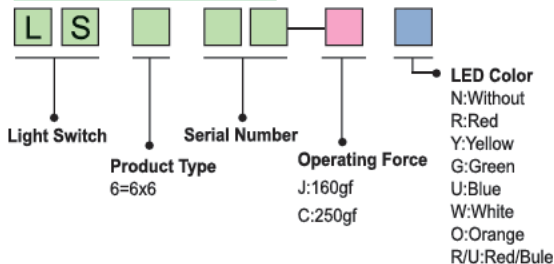
No.	Dimensions	Circuit Diagram Pad Layout																														
1	<div><div>● LS605</div><div></div><table><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Norm Max</th></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.8V/2.4V</td></tr></table></div> <div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>	Color	VR	IF	Recommended Operating	IF Norm Max	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.9V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.8V/2.4V	
Color	VR	IF	Recommended Operating	IF Norm Max																												
White	DC5V	20mA	20mA	3.0V/3.6V																												
Red	DC5V	20mA	20mA	1.7V/2.4V																												
Yellow	DC5V	20mA	20mA	1.9V/2.4V																												
Blue	DC5V	20mA	20mA	3.0V/3.6V																												
Green	DC5V	20mA	20mA	1.8V/2.4V																												
2	<div><div>● LS606</div><div></div><table><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Norm Max</th></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.8V/2.4V</td></tr></table></div> <div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>	Color	VR	IF	Recommended Operating	IF Norm Max	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.9V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.8V/2.4V	
Color	VR	IF	Recommended Operating	IF Norm Max																												
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Red	DC5V	20mA	20mA	1.7V/2.4V																												
Yellow	DC5V	20mA	20mA	1.9V/2.4V																												
Blue	DC5V	20mA	20mA	3.0V/3.6V																												
Green	DC5V	20mA	20mA	1.8V/2.4V																												

LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA, 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

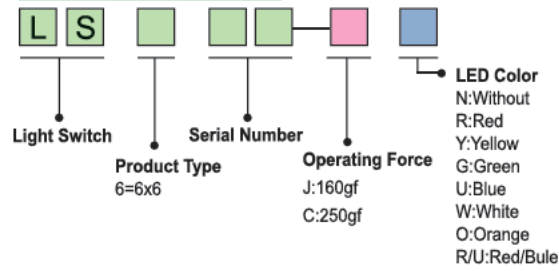
No.	Dimensions	Circuit Diagram Pad Layout																														
1	<div><div>● LS609</div><div><table><thead><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Norm Max</th></tr></thead><tbody><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr></tbody></table></div></div>	Color	VR	IF	Recommended Operating	IF Norm Max	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.9V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.9V/2.4V	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
Color	VR	IF	Recommended Operating	IF Norm Max																												
White	DC5V	20mA	20mA	3.0V/3.6V																												
Red	DC5V	20mA	20mA	1.7V/2.4V																												
Yellow	DC5V	20mA	20mA	1.9V/2.4V																												
Blue	DC5V	20mA	20mA	3.0V/3.6V																												
Green	DC5V	20mA	20mA	1.9V/2.4V																												
2	<div><div>● LS610</div><div><table><thead><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Norm Max</th></tr></thead><tbody><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr></tbody></table></div></div>	Color	VR	IF	Recommended Operating	IF Norm Max	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.9V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.9V/2.4V	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
Color	VR	IF	Recommended Operating	IF Norm Max																												
White	DC5V	20mA	20mA	3.0V/3.6V																												
Red	DC5V	20mA	20mA	1.7V/2.4V																												
Yellow	DC5V	20mA	20mA	1.9V/2.4V																												
Blue	DC5V	20mA	20mA	3.0V/3.6V																												
Green	DC5V	20mA	20mA	1.9V/2.4V																												

LAMP SERIES

6.0x6.0 Led Built-in Type



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	100mA. 30V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

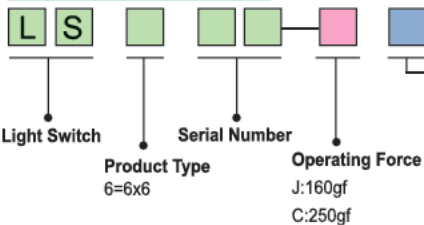
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● LS611</p>	

LAMP SERIES

6.0x6.0 Led Built-in Type



HOW TO ORDER



LED Color
 N:Without
 R:Red
 Y:Yellow
 G:Green
 U:Blue
 W:White
 O:Orange
 R/U:Red/Bule

Specification

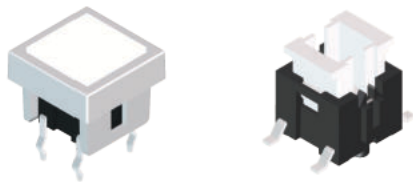
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	100mA, 30V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

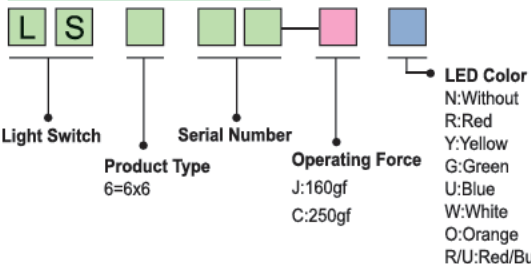
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● LS613</p>	
2	<p>● LS614</p>	

LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

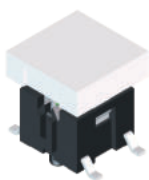
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA. 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

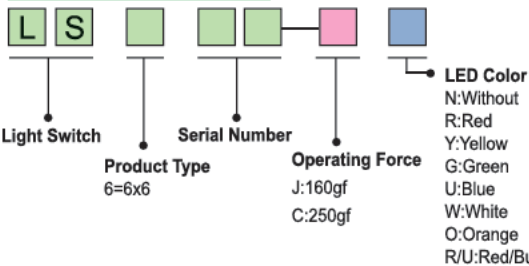
No.	Dimensions	Circuit Diagram Pad Layout																																				
1	<div>● LS615</div> <div></div>	<div></div>																																				
2	<div>● LS616</div> <div></div> <table><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Nom</th><th>IF Max</th></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V</td><td>3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V</td><td>2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V</td><td>2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V</td><td>3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V</td><td>2.4V</td></tr></table>	Color	VR	IF	Recommended Operating	IF Nom	IF Max	White	DC5V	20mA	20mA	3.0V	3.6V	Red	DC5V	20mA	20mA	1.7V	2.4V	Yellow	DC5V	20mA	20mA	1.9V	2.4V	Blue	DC5V	20mA	20mA	3.0V	3.6V	Green	DC5V	20mA	20mA	1.9V	2.4V	<div></div>
Color	VR	IF	Recommended Operating	IF Nom	IF Max																																	
White	DC5V	20mA	20mA	3.0V	3.6V																																	
Red	DC5V	20mA	20mA	1.7V	2.4V																																	
Yellow	DC5V	20mA	20mA	1.9V	2.4V																																	
Blue	DC5V	20mA	20mA	3.0V	3.6V																																	
Green	DC5V	20mA	20mA	1.9V	2.4V																																	

LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

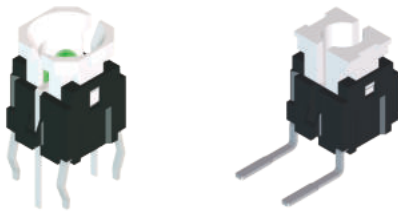
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA. 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

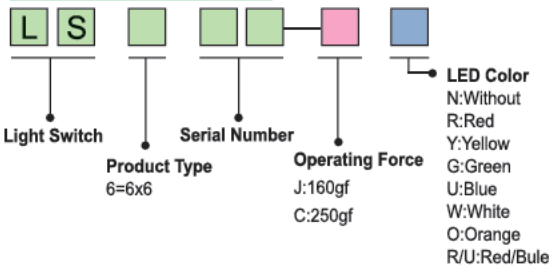
No.	Dimensions	Circuit Diagram Pad Layout																														
1	<div>● LS617</div>	<p>Circuit Diagram</p> <p>PCB Layout Recommended</p>																														
2	<div>● LS618</div> <table><thead><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Noml Max</th></tr></thead><tbody><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.8V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr></tbody></table>	Color	VR	IF	Recommended Operating	IF Noml Max	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.8V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.9V/2.4V	<p>Circuit Diagram</p> <p>PCB Layout Recommended</p>
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Green	DC5V	20mA	20mA	1.9V/2.4V																												

LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

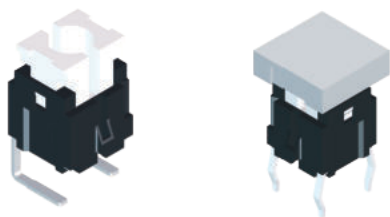
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA, 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

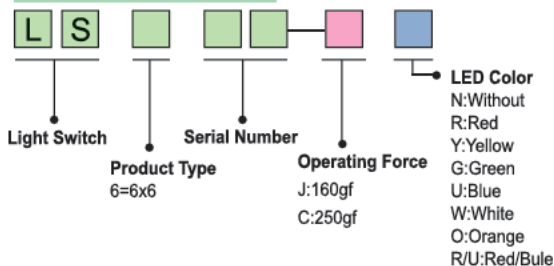
No.	Dimensions	Circuit Diagram Pad Layout																														
1	<div><div>● LS619</div><div><table><thead><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF (Nom/Max)</th></tr></thead><tbody><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.8V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.8V/2.4V</td></tr></tbody></table></div></div>	Color	VR	IF	Recommended Operating	IF (Nom/Max)	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.8V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.8V/2.4V	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
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Green	DC5V	20mA	20mA	1.8V/2.4V																												
2	<div><div>● LS620</div><div></div></div>	<div><p>Circuit Diagram</p></div>																														

LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

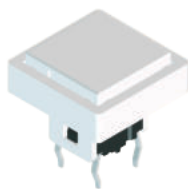
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA, 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

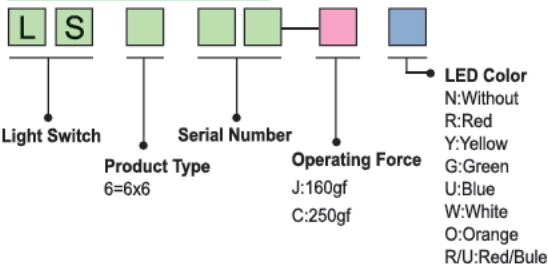
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● LS621</p>	<p>Circuit Diagram</p>
2	<p>● LS622</p>	<p>Circuit Diagram</p> <p>PCB Layout Recommended</p>

LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

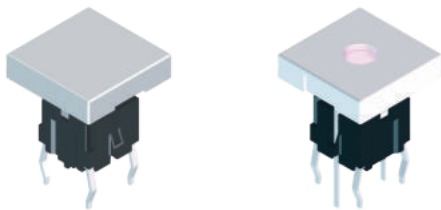
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA. 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

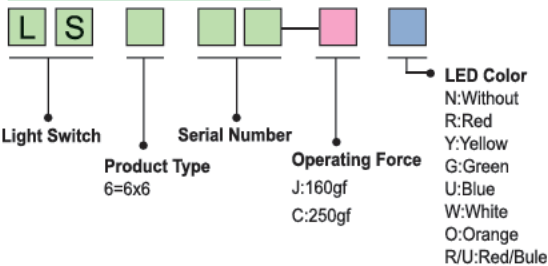
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● LS623</p>	
2	<p>● LS624</p>	

LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA. 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

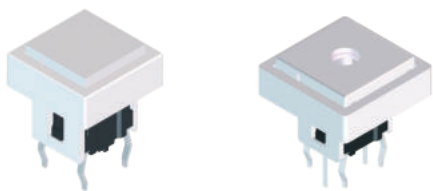
Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● LS625</p>	
2	<p>● LS626</p>	

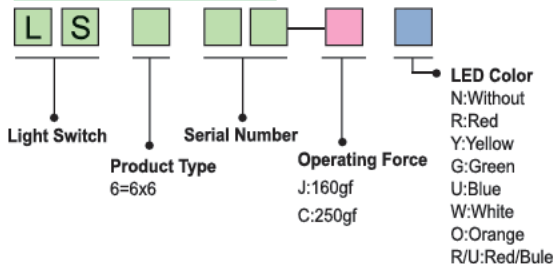
Color	VR	IF	Recommended Operating	IF Nom	IF Max
White	DC5V	20mA	20mA	3.0V	3.6V
Red	DC5V	20mA	20mA	1.7V	2.4V
Yellow	DC5V	20mA	20mA	1.9V	2.4V
Blue	DC5V	20mA	20mA	3.0V	3.6V
Green	DC5V	20mA	20mA	1.9V	2.4V

LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

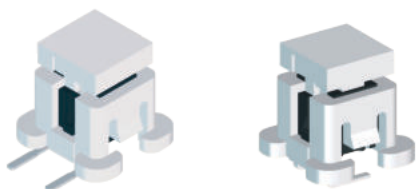
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA, 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

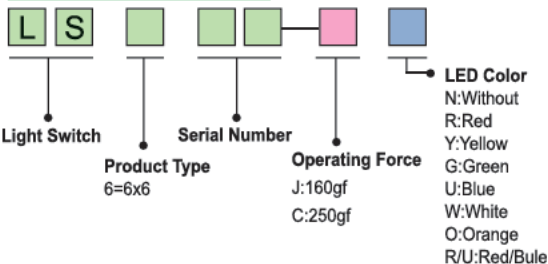
No.	Dimensions	Circuit Diagram																																			
		Pad Layout																																			
1	<div><div>● LS627</div><div></div></div>	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>																																			
2	<div><div>● LS628</div><div></div><table><thead><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF</th></tr><tr><th></th><th></th><th></th><th></th><th>Nom Max</th></tr></thead><tbody><tr><td>White</td><td>DCSV</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DCSV</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DCSV</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr><tr><td>Blue</td><td>DCSV</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DCSV</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr></tbody></table></div>	Color	VR	IF	Recommended Operating	IF					Nom Max	White	DCSV	20mA	20mA	3.0V/3.6V	Red	DCSV	20mA	20mA	1.7V/2.4V	Yellow	DCSV	20mA	20mA	1.9V/2.4V	Blue	DCSV	20mA	20mA	3.0V/3.6V	Green	DCSV	20mA	20mA	1.9V/2.4V	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
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Green	DCSV	20mA	20mA	1.9V/2.4V																																	

LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA, 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

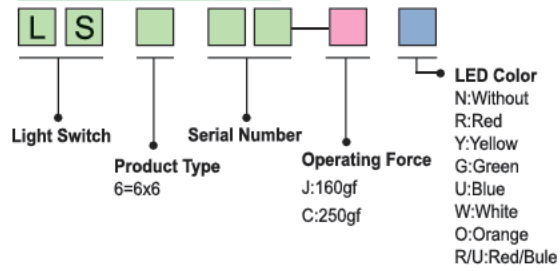
No.	Dimensions	Circuit Diagram Pad Layout
1	<p>● LS629</p>	<p>Circuit Diagram</p>
2	<p>● LS630</p>	<p>Circuit Diagram</p>

LAMP SERIES

6x6 Led Built-in Type



HOW TO ORDER



Specification

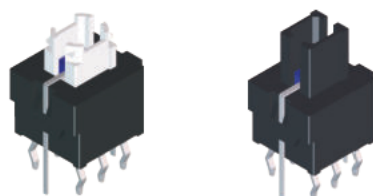
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA. 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.25 ± 0.1mm

Diagram

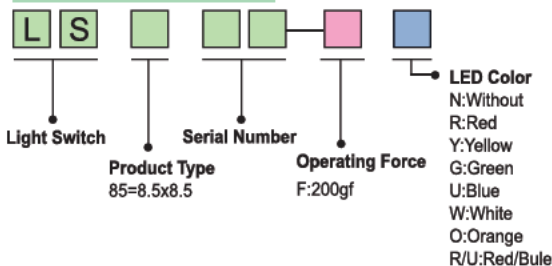
No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● LS631</p>	<p>Circuit Diagram</p> <p>PCB Layout Recommended</p>

LAMP SERIES

8.5x8.5 Led Built-in Type



HOW TO ORDER



Specification

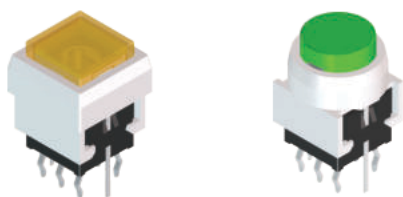
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA. 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	500mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	200 ± 50gf
	Travel	0.25 ± 0.1mm

Diagram

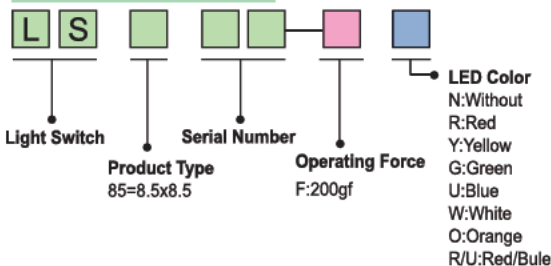
No.	Dimensions	Circuit Diagram Pad Layout																																																																									
1	<div><div>● LS8501</div><div><table><thead><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Noml</th><th>IF Max</th></tr></thead><tbody><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V</td><td>3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V</td><td>2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V</td><td>2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V</td><td>3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V</td><td>2.4V</td></tr></tbody></table><div><div>Push No Sound No Lock</div><div>Push No Lock</div><div>Push To Lock</div><div>Operating Type</div></div></div></div> <div><div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div></div>	Color	VR	IF	Recommended Operating	IF Noml	IF Max	White	DC5V	20mA	20mA	3.0V	3.6V	Red	DC5V	20mA	20mA	1.7V	2.4V	Yellow	DC5V	20mA	20mA	1.9V	2.4V	Blue	DC5V	20mA	20mA	3.0V	3.6V	Green	DC5V	20mA	20mA	1.9V	2.4V	2	<div><div>● LS8502</div><div><table><thead><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Noml</th><th>IF Max</th></tr></thead><tbody><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V</td><td>3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V</td><td>2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V</td><td>2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V</td><td>3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V</td><td>2.4V</td></tr></tbody></table><div><div>Push No Sound No Lock</div><div>Push No Lock</div><div>Push To Lock</div><div>Operating Type</div></div></div></div> <div><div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div></div>	Color	VR	IF	Recommended Operating	IF Noml	IF Max	White	DC5V	20mA	20mA	3.0V	3.6V	Red	DC5V	20mA	20mA	1.7V	2.4V	Yellow	DC5V	20mA	20mA	1.9V	2.4V	Blue	DC5V	20mA	20mA	3.0V	3.6V	Green	DC5V	20mA	20mA	1.9V	2.4V
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Green	DC5V	20mA	20mA	1.9V	2.4V																																																																						

LAMP SERIES

8.5x8.5 Led Built-in Type



HOW TO ORDER



Specification

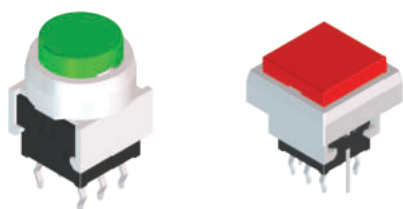
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA. 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	500mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	200 ± 50gf
	Travel	0.25 ± 0.1mm

Diagram

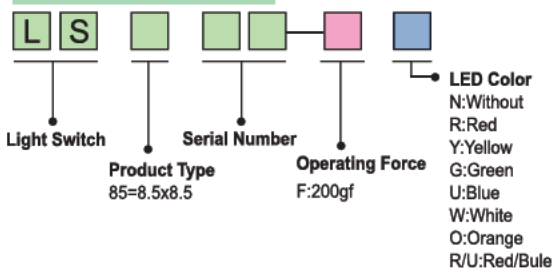
No.	Dimensions	Circuit Diagram Pad Layout																																												
1	<div><div>● LS8503</div><div></div><div><table><tr><td></td><td>Push No Sound No Lock</td></tr><tr><td></td><td>Push No Lock</td></tr><tr><td></td><td>Push To Lock</td></tr><tr><td></td><td>Operating Type</td></tr></table><table><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Norm</th><th>IF Max</th></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V</td><td>3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V</td><td>2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V</td><td>2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V</td><td>3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V</td><td>2.4V</td></tr></table></div></div> <div><div></div><div>Circuit Diagram</div><div>PCB Layout Recommended</div></div>		Push No Sound No Lock		Push No Lock		Push To Lock		Operating Type	Color	VR	IF	Recommended Operating	IF Norm	IF Max	White	DC5V	20mA	20mA	3.0V	3.6V	Red	DC5V	20mA	20mA	1.7V	2.4V	Yellow	DC5V	20mA	20mA	1.9V	2.4V	Blue	DC5V	20mA	20mA	3.0V	3.6V	Green	DC5V	20mA	20mA	1.9V	2.4V	
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2	<div><div>● LS8504</div><div></div><div><table><tr><td></td><td>Push No Sound No Lock</td></tr><tr><td></td><td>Push No Lock</td></tr><tr><td></td><td>Push To Lock</td></tr><tr><td></td><td>Operating Type</td></tr></table><table><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Norm</th><th>IF Max</th></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V</td><td>3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V</td><td>2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V</td><td>2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V</td><td>3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V</td><td>2.4V</td></tr></table></div></div> <div><div></div><div>Circuit Diagram</div><div>PCB Layout Recommended</div></div>		Push No Sound No Lock		Push No Lock		Push To Lock		Operating Type	Color	VR	IF	Recommended Operating	IF Norm	IF Max	White	DC5V	20mA	20mA	3.0V	3.6V	Red	DC5V	20mA	20mA	1.7V	2.4V	Yellow	DC5V	20mA	20mA	1.9V	2.4V	Blue	DC5V	20mA	20mA	3.0V	3.6V	Green	DC5V	20mA	20mA	1.9V	2.4V	
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Blue	DC5V	20mA	20mA	3.0V	3.6V																																									
Green	DC5V	20mA	20mA	1.9V	2.4V																																									

LAMP SERIES

8.5x8.5 Led Built-in Type



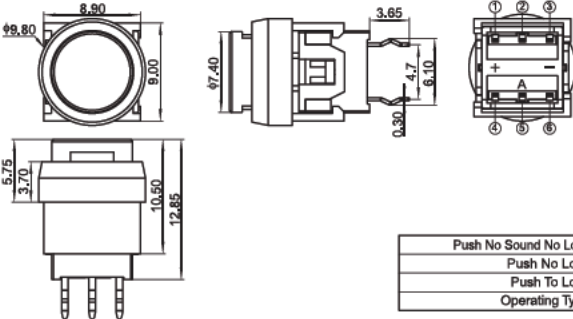
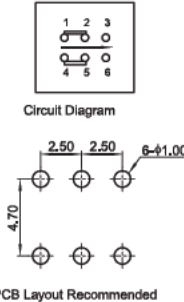
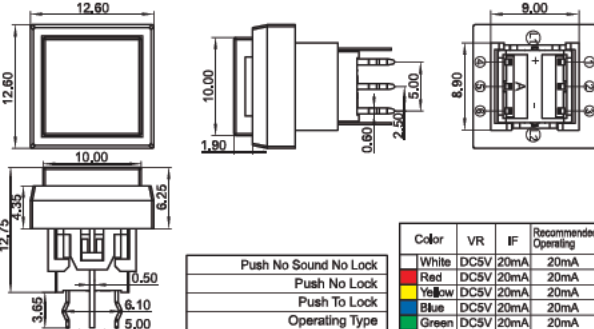
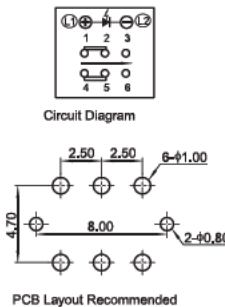
HOW TO ORDER



Specification

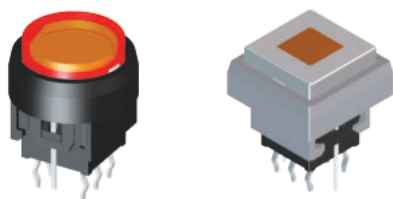
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA, 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	500mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	200 ± 50gf
	Travel	0.25 ± 0.1mm

Diagram

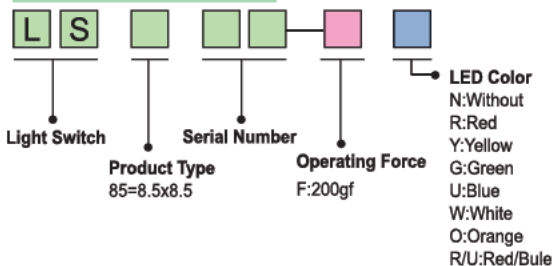
No.	Dimensions	Circuit Diagram Pad Layout																																								
1	<div>● LS8505</div> <div></div> <div><table><tr><td>Push No Sound No Lock</td></tr><tr><td>Push No Lock</td></tr><tr><td>Push To Lock</td></tr><tr><td>Operating Type</td></tr></table></div>	Push No Sound No Lock	Push No Lock	Push To Lock	Operating Type	<div></div>																																				
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2	<div>● LS8506</div> <div></div> <div><table><tr><td>Push No Sound No Lock</td></tr><tr><td>Push No Lock</td></tr><tr><td>Push To Lock</td></tr><tr><td>Operating Type</td></tr></table><table><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Norm</th><th>IF Max</th></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V</td><td>3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V</td><td>2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V</td><td>2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V</td><td>3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V</td><td>2.4V</td></tr></table></div>	Push No Sound No Lock	Push No Lock	Push To Lock	Operating Type	Color	VR	IF	Recommended Operating	IF Norm	IF Max	White	DC5V	20mA	20mA	3.0V	3.6V	Red	DC5V	20mA	20mA	1.7V	2.4V	Yellow	DC5V	20mA	20mA	1.9V	2.4V	Blue	DC5V	20mA	20mA	3.0V	3.6V	Green	DC5V	20mA	20mA	1.9V	2.4V	<div></div>
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Green	DC5V	20mA	20mA	1.9V	2.4V																																					

LAMP SERIES

8.5x8.5 Led Built-in Type



HOW TO ORDER



Specification

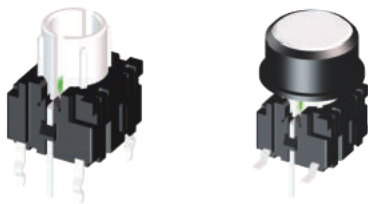
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA. 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	500mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	200 ± 50gf
	Travel	0.25 ± 0.1mm

Diagram

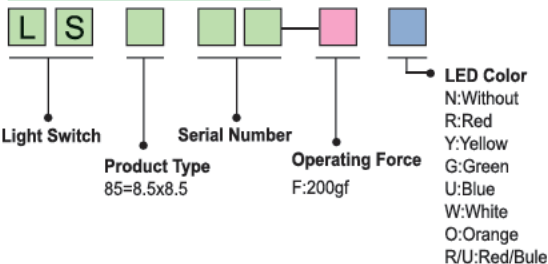
No.	Dimensions	Circuit Diagram Pad Layout																													
1	<div><div>● LS8507</div><div><table><tr><td>Color</td><td>VR</td><td>IF</td><td>Recommended Operating</td><td>IF Norm/Max</td></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr></table><div><div>Push No Sound No Lock</div><div>Push No Lock</div><div>Push To Lock</div><div>Operating Type</div></div></div></div> <div><div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div></div>	Color	VR	IF	Recommended Operating	IF Norm/Max	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.9V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.9V/2.4V
Color	VR	IF	Recommended Operating	IF Norm/Max																											
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Blue	DC5V	20mA	20mA	3.0V/3.6V																											
Green	DC5V	20mA	20mA	1.9V/2.4V																											
2	<div><div>● LS8508</div><div><table><tr><td>Color</td><td>VR</td><td>IF</td><td>Recommended Operating</td><td>IF Norm/Max</td></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr></table><div><div>Push No Sound No Lock</div><div>Push No Lock</div><div>Push To Lock</div><div>Operating Type</div></div></div></div> <div><div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div></div>	Color	VR	IF	Recommended Operating	IF Norm/Max	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.9V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.9V/2.4V
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Red	DC5V	20mA	20mA	1.7V/2.4V																											
Yellow	DC5V	20mA	20mA	1.9V/2.4V																											
Blue	DC5V	20mA	20mA	3.0V/3.6V																											
Green	DC5V	20mA	20mA	1.9V/2.4V																											

LAMP SERIES

8.5x8.5 Led Built-in Type



HOW TO ORDER



Specification

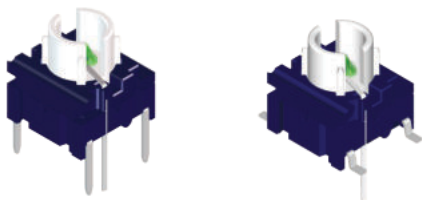
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	50mA, 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	500mΩ max.
Durability	Lifetime	300,000 Cycles Min
Mechanical performance	Operating force	200 ± 50gf
	Travel	0.25 ± 0.1mm

Diagram

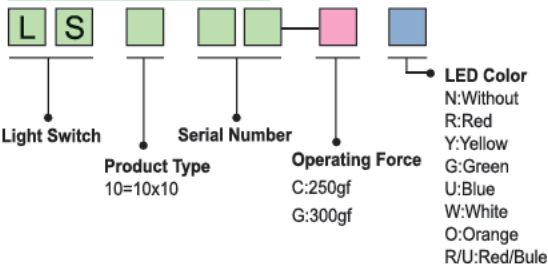
No.	Dimensions	Circuit Diagram Pad Layout																														
1	<div><div>● LS8511</div><div><table><thead><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF (Norm/Max)</th></tr></thead><tbody><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr></tbody></table></div></div> <div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>	Color	VR	IF	Recommended Operating	IF (Norm/Max)	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.9V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.9V/2.4V	
Color	VR	IF	Recommended Operating	IF (Norm/Max)																												
White	DC5V	20mA	20mA	3.0V/3.6V																												
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Yellow	DC5V	20mA	20mA	1.9V/2.4V																												
Blue	DC5V	20mA	20mA	3.0V/3.6V																												
Green	DC5V	20mA	20mA	1.9V/2.4V																												
2	<div><div>● LS8512</div><div><table><thead><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF (Norm/Max)</th></tr></thead><tbody><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr></tbody></table></div></div> <div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>	Color	VR	IF	Recommended Operating	IF (Norm/Max)	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.9V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.9V/2.4V	
Color	VR	IF	Recommended Operating	IF (Norm/Max)																												
White	DC5V	20mA	20mA	3.0V/3.6V																												
Red	DC5V	20mA	20mA	1.7V/2.4V																												
Yellow	DC5V	20mA	20mA	1.9V/2.4V																												
Blue	DC5V	20mA	20mA	3.0V/3.6V																												
Green	DC5V	20mA	20mA	1.9V/2.4V																												

LAMP SERIES

10x10 Led Built-in Type



HOW TO ORDER



Specification

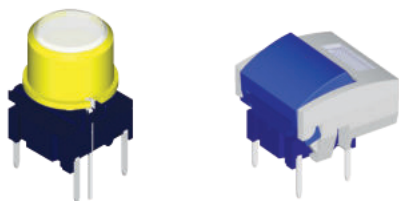
Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	0.1A 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	C:250gf G:300gf
	Travel	0.3 ± 0.1mm

Diagram

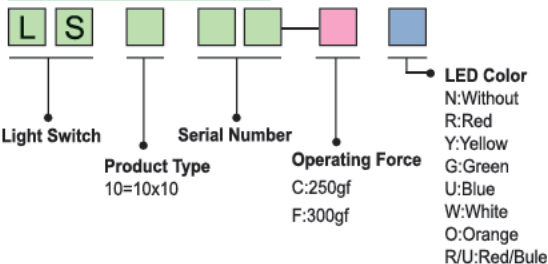
No.	Dimensions	Circuit Diagram Pad Layout																														
1	<div>● LS1001</div> <div></div> <table><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF</th></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr></table>	Color	VR	IF	Recommended Operating	IF	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.9V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.9V/2.4V	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
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Green	DC5V	20mA	20mA	1.9V/2.4V																												
2	<div>● LS1002</div> <div></div> <table><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF</th></tr><tr><td>White</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr><tr><td>Blue</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V</td><td>20mA</td><td>20mA</td><td>1.9V/2.4V</td></tr></table>	Color	VR	IF	Recommended Operating	IF	White	DC5V	20mA	20mA	3.0V/3.6V	Red	DC5V	20mA	20mA	1.7V/2.4V	Yellow	DC5V	20mA	20mA	1.9V/2.4V	Blue	DC5V	20mA	20mA	3.0V/3.6V	Green	DC5V	20mA	20mA	1.9V/2.4V	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
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Blue	DC5V	20mA	20mA	3.0V/3.6V																												
Green	DC5V	20mA	20mA	1.9V/2.4V																												

LAMP SERIES

10x10 Led Built-in Type



HOW TO ORDER



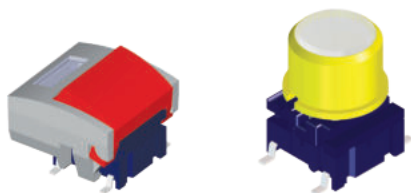
Specification

Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	0.1A, 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	C:250gf F:300gf
	Travel	0.3 ± 0.1mm

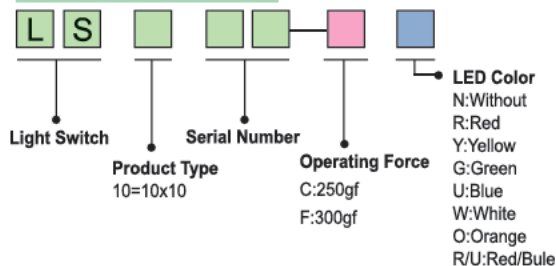
Diagram

No.	Dimensions	Circuit Diagram Pad Layout																													
1	<div><div>● LS1003</div><div></div><table><tr><th>Color</th><th>VR</th><th>IF</th><th>Recommended Operating</th><th>IF Norm/Max</th></tr><tr><td>White</td><td>DC5V/20mA</td><td>20mA</td><td></td><td>3.0V/3.6V</td></tr><tr><td>Red</td><td>DC5V/20mA</td><td>20mA</td><td></td><td>1.7V/2.4V</td></tr><tr><td>Yellow</td><td>DC5V/20mA</td><td>20mA</td><td></td><td>1.9V/2.4V</td></tr><tr><td>Blue</td><td>DC5V/20mA</td><td>20mA</td><td></td><td>3.0V/3.6V</td></tr><tr><td>Green</td><td>DC5V/20mA</td><td>20mA</td><td></td><td>1.9V/2.4V</td></tr></table></div> <div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>	Color	VR	IF	Recommended Operating	IF Norm/Max	White	DC5V/20mA	20mA		3.0V/3.6V	Red	DC5V/20mA	20mA		1.7V/2.4V	Yellow	DC5V/20mA	20mA		1.9V/2.4V	Blue	DC5V/20mA	20mA		3.0V/3.6V	Green	DC5V/20mA	20mA		1.9V/2.4V
Color	VR	IF	Recommended Operating	IF Norm/Max																											
White	DC5V/20mA	20mA		3.0V/3.6V																											
Red	DC5V/20mA	20mA		1.7V/2.4V																											
Yellow	DC5V/20mA	20mA		1.9V/2.4V																											
Blue	DC5V/20mA	20mA		3.0V/3.6V																											
Green	DC5V/20mA	20mA		1.9V/2.4V																											
2	<div><div>● LS1004</div><div></div></div> <div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>																														

10x10 Led Built-in Type



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	0.1A. 30V DC
	Insulation resistance	100MΩ min. 250V DC
	Dielectric strength	AC250V(50-60Hz) for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	C:250gf F:300gf
	Travel	0.3 ± 0.1mm

Diagram

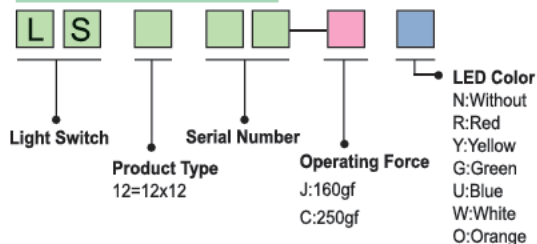
No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● LS1005</p>	
2	<p>● LS1006</p>	

LAMP SERIES

12.0x12.0 With Light Tact Switch



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-10℃ to +60℃
Electrical performance	Rating	50mA. 12V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.3 ± 0.1mm

LED Data

Peak Perverse Voltage	See ordering guide
Max.Forward Current	20mA
Color	IF Forward Direct Current (mA)
Yellow	25
Red	25
Green	25

VF Forward Voltage (v) TYP.	NN Peak Emission Wavelength(nm)
4.2	630
4.2	565
4.2	589

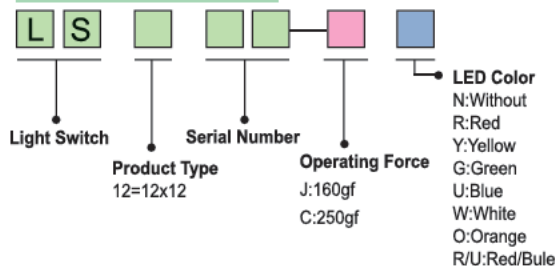
Diagram

No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● LS1201</p>	

12x12 Led Built-in Type



HOW TO ORDER



Specification

Items		Standard
Operating temperature range		-25℃ to +85℃
Electrical performance	Rating	100mA. 30V DC
	Insulation resistance	100MΩ min. 100V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	100,000 Cycles Min
Mechanical performance	Operating force	J:160gf C:250gf
	Travel	0.3 ± 0.1mm

Diagram

No.	Dimensions	Circuit Diagram
		Pad Layout
1	<p>● LS1202</p>	
2	<p>● LS1203</p>	

04

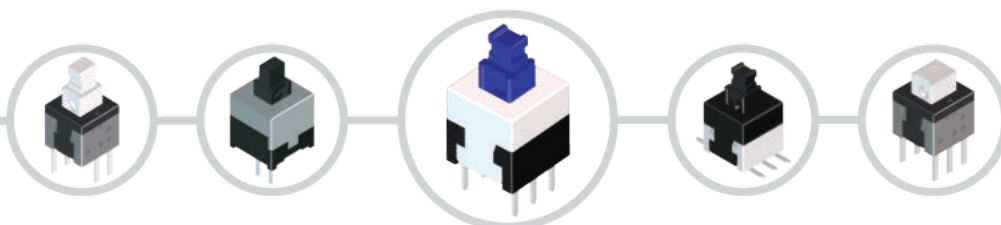
PUSH SWITCH SERIES

Features:

- There are many dimensions available, such as:
- The switch sounds silvery, feeling and rhythm are perfect.
- Contact ways: SPDT & DPDT.
- There are 2 operating modes: Self-Lock and Non-Lock.
- The state of terminals and height of pushbutton can be designed according to customer's requirements.

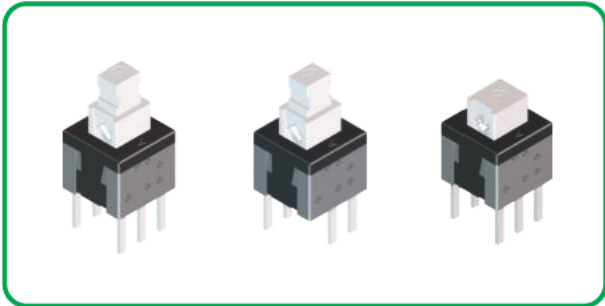
Applications:

The push button switches can operate computer ancillary equipment, TV, audio equipment, all kinds of small autoimmunization equipment and instruments etc.

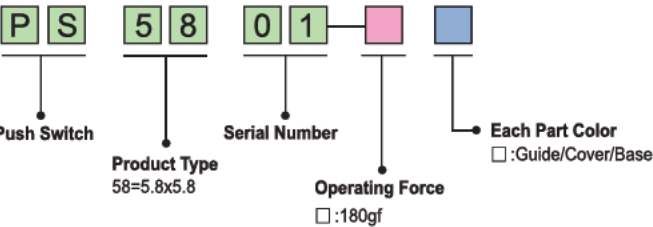


PUSH BUTTON SERIES

5.8x5.8 Push Switch



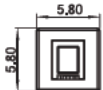
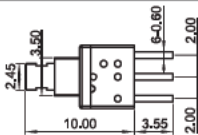
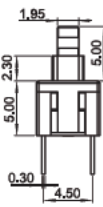
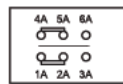
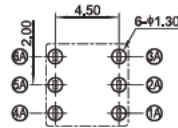
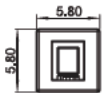
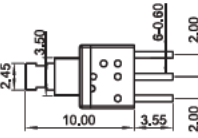
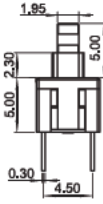
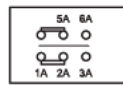
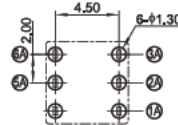
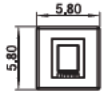
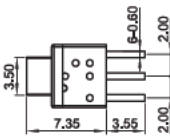
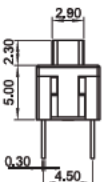
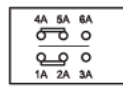
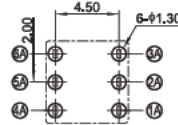
HOW TO ORDER



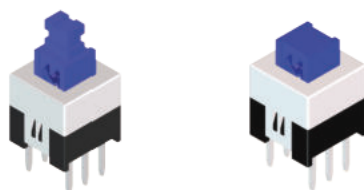
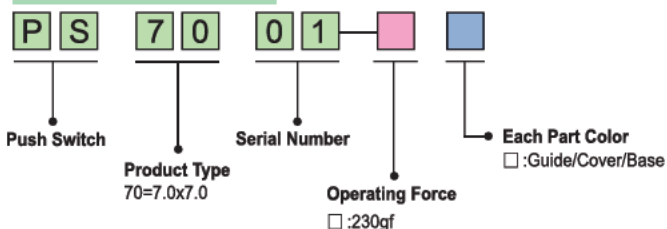
Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	10mA, 30V DC
	Insulation resistance	100MΩ min. 500V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	10,000 Cycles min.
Operating force		180gf

Diagram

No.	Dimensions	Circuit Diagram								
1	<div>● PS5801</div> <div></div> <table><tr><td>PS5803</td><td>Push No Sound No Lock</td></tr><tr><td>PS5802</td><td>Push No Lock</td></tr><tr><td>PS5801</td><td>Push To Lock</td></tr><tr><td>PartNo</td><td>Operating Type</td></tr></table>	PS5803	Push No Sound No Lock	PS5802	Push No Lock	PS5801	Push To Lock	PartNo	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS5803	Push No Sound No Lock									
PS5802	Push No Lock									
PS5801	Push To Lock									
PartNo	Operating Type									
2	<div>● PS5804</div> <div></div> <table><tr><td>PS5806</td><td>Push No Sound No Lock</td></tr><tr><td>PS5805</td><td>Push No Lock</td></tr><tr><td>PS5804</td><td>Push To Lock</td></tr><tr><td>PartNo</td><td>Operating Type</td></tr></table>	PS5806	Push No Sound No Lock	PS5805	Push No Lock	PS5804	Push To Lock	PartNo	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS5806	Push No Sound No Lock									
PS5805	Push No Lock									
PS5804	Push To Lock									
PartNo	Operating Type									
3	<div>● PS5807</div> <div></div> <table><tr><td>PS5809</td><td>Push No Sound No Lock</td></tr><tr><td>PS5808</td><td>Push No Lock</td></tr><tr><td>PS5807</td><td>Push To Lock</td></tr><tr><td>PartNo</td><td>Operating Type</td></tr></table>	PS5809	Push No Sound No Lock	PS5808	Push No Lock	PS5807	Push To Lock	PartNo	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS5809	Push No Sound No Lock									
PS5808	Push No Lock									
PS5807	Push To Lock									
PartNo	Operating Type									

7x7 Push Switch

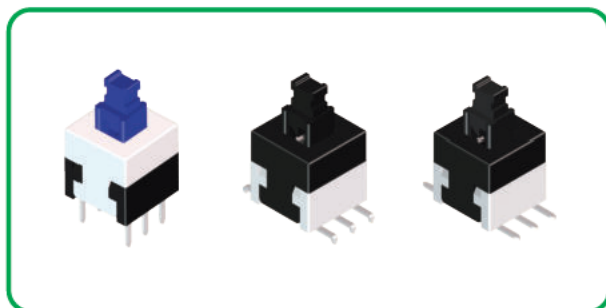


Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	10mA. 30V DC
	Insulation resistance	100MΩ min. 500V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	10,000 Cycles min.
Operating force		230gf

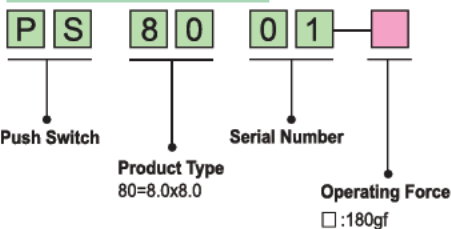
No.	Dimensions	Circuit Diagram																
1	<div><div><p>● PS7001</p><table><tr><td>PS7003</td><td>Push No Sound No Lock</td></tr><tr><td>PS7002</td><td>Push No Lock</td></tr><tr><td>PS7001</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div><div><table><tr><td>PS7003</td><td>Push No Sound No Lock</td></tr><tr><td>PS7002</td><td>Push No Lock</td></tr><tr><td>PS7001</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div></div>	PS7003	Push No Sound No Lock	PS7002	Push No Lock	PS7001	Push To Lock	Part No	Operating Type	PS7003	Push No Sound No Lock	PS7002	Push No Lock	PS7001	Push To Lock	Part No	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS7003	Push No Sound No Lock																	
PS7002	Push No Lock																	
PS7001	Push To Lock																	
Part No	Operating Type																	
PS7003	Push No Sound No Lock																	
PS7002	Push No Lock																	
PS7001	Push To Lock																	
Part No	Operating Type																	
2	<div><div><p>● PS7004</p><table><tr><td>PS7006</td><td>Push No Sound No Lock</td></tr><tr><td>PS7005</td><td>Push No Lock</td></tr><tr><td>PS7004</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div><div><table><tr><td>PS7006</td><td>Push No Sound No Lock</td></tr><tr><td>PS7005</td><td>Push No Lock</td></tr><tr><td>PS7004</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div></div>	PS7006	Push No Sound No Lock	PS7005	Push No Lock	PS7004	Push To Lock	Part No	Operating Type	PS7006	Push No Sound No Lock	PS7005	Push No Lock	PS7004	Push To Lock	Part No	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS7006	Push No Sound No Lock																	
PS7005	Push No Lock																	
PS7004	Push To Lock																	
Part No	Operating Type																	
PS7006	Push No Sound No Lock																	
PS7005	Push No Lock																	
PS7004	Push To Lock																	
Part No	Operating Type																	

PUSH BUTTON SERIES

8x8 Push Switch



HOW TO ORDER



Specification

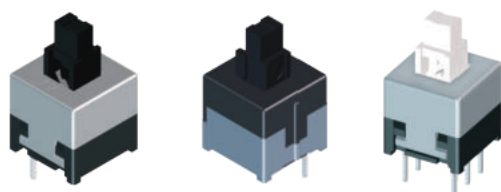
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	10mA, 30V DC
	Insulation resistance	100MΩ min. 500V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	10,000 Cycles min.
Operating force		180gf

Diagram

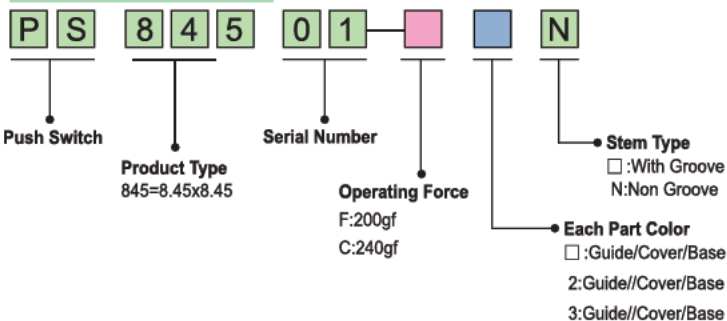
No.	Dimensions	Circuit Diagram
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PUSH BUTTON SERIES

8.45x8.45 Push Switch



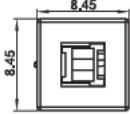
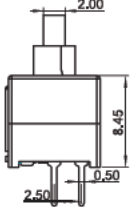
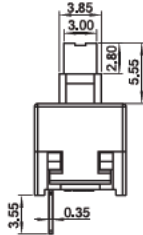
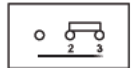
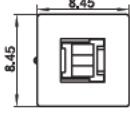
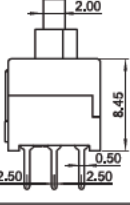
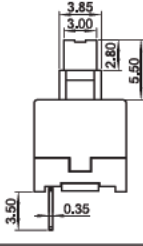
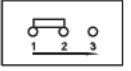
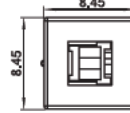
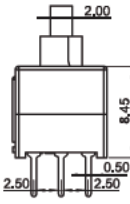
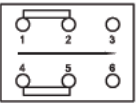
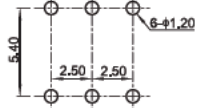
HOW TO ORDER



Specification

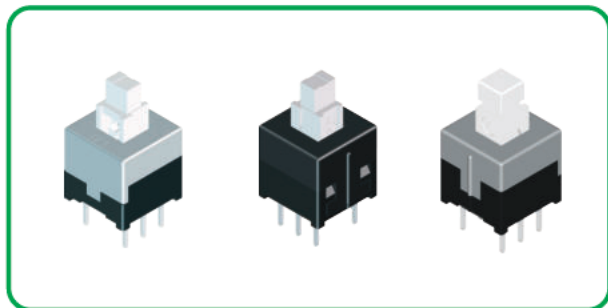
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	10mA, 30V DC
	Insulation resistance	100MΩ min. 500V DC
	Dielectric strength	500V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	10,000 Cycles min.
Operating force		F:200gf C:240gf

Diagram

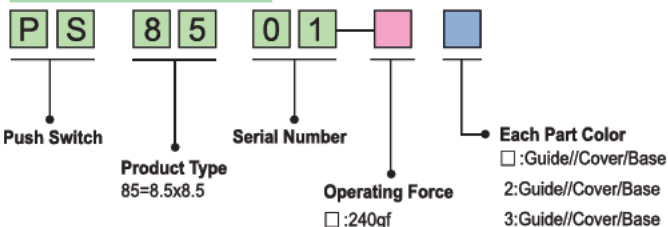
No.	Dimensions	Circuit Diagram								
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PS84503	Push No Sound No Lock									
PS84502	Push No Lock									
PS84501	Push To Lock									
Part No	Operating Type									
2	<div><div>● PS84504</div><div></div><table><tr><td>PS84506</td><td>Push No Sound No Lock</td></tr><tr><td>PS84505</td><td>Push No Lock</td></tr><tr><td>PS84504</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div>	PS84506	Push No Sound No Lock	PS84505	Push No Lock	PS84504	Push To Lock	Part No	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS84506	Push No Sound No Lock									
PS84505	Push No Lock									
PS84504	Push To Lock									
Part No	Operating Type									
3	<div><div>● PS84507</div><div></div><table><tr><td>PS84509</td><td>Push No Sound No Lock</td></tr><tr><td>PS84508</td><td>Push No Lock</td></tr><tr><td>PS84507</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div>	PS84509	Push No Sound No Lock	PS84508	Push No Lock	PS84507	Push To Lock	Part No	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS84509	Push No Sound No Lock									
PS84508	Push No Lock									
PS84507	Push To Lock									
Part No	Operating Type									

PUSH BUTTON SERIES

8.5x8.5 Push Switch



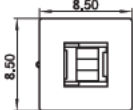
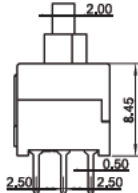
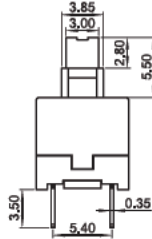
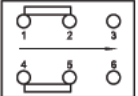
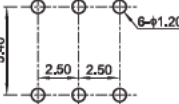
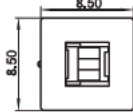
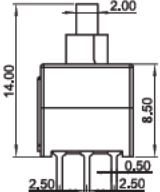
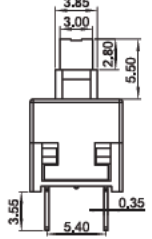
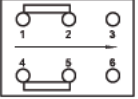
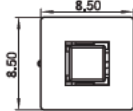
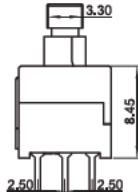
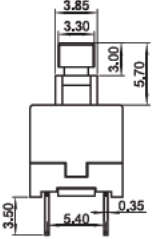
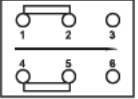
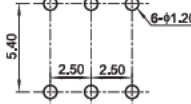
HOW TO ORDER



Specification

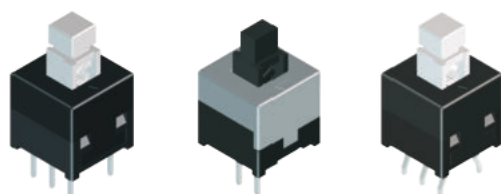
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	10mA, 30V DC
	Insulation resistance	100MΩ min. 500V DC
	Dielectric strength	500V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	10,000 Cycles min.
Operating force		240gf

Diagram

No.	Dimensions	Circuit Diagram								
1	<div><div>● PS8501</div><div></div><table><tr><td>PS8503</td><td>Push No Sound No Lock</td></tr><tr><td>PS8502</td><td>Push No Lock</td></tr><tr><td>PS8501</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div>	PS8503	Push No Sound No Lock	PS8502	Push No Lock	PS8501	Push To Lock	Part No	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS8503	Push No Sound No Lock									
PS8502	Push No Lock									
PS8501	Push To Lock									
Part No	Operating Type									
2	<div><div>● PS8504</div><div></div><table><tr><td>PS8506</td><td>Push No Sound No Lock</td></tr><tr><td>PS8505</td><td>Push No Lock</td></tr><tr><td>PS8504</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div>	PS8506	Push No Sound No Lock	PS8505	Push No Lock	PS8504	Push To Lock	Part No	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS8506	Push No Sound No Lock									
PS8505	Push No Lock									
PS8504	Push To Lock									
Part No	Operating Type									
3	<div><div>● PS8507</div><div></div><table><tr><td>PS8509</td><td>Push No Sound No Lock</td></tr><tr><td>PS8508</td><td>Push No Lock</td></tr><tr><td>PS8507</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div>	PS8509	Push No Sound No Lock	PS8508	Push No Lock	PS8507	Push To Lock	Part No	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS8509	Push No Sound No Lock									
PS8508	Push No Lock									
PS8507	Push To Lock									
Part No	Operating Type									

PUSH BUTTON SERIES

8.5x8.5 Push Switch



HOW TO ORDER



Specification

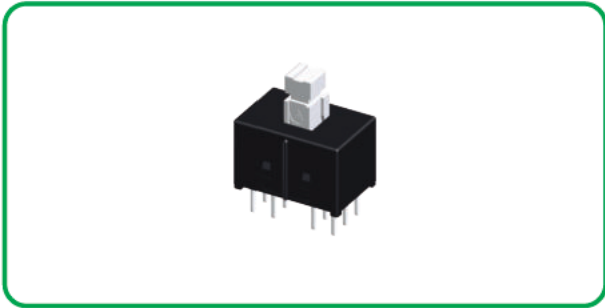
Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	10mA. 30V DC
	Insulation resistance	100MΩ min. 500V DC
	Dielectric strength	500V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	10,000 Cycles min.
Operating force		240gf

Diagram

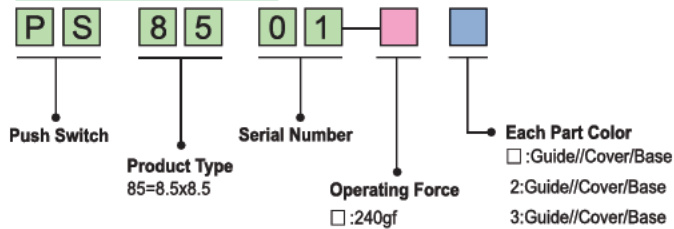
No.	Dimensions	Circuit Diagram								
1	<div><div>● PS8510</div><div><table><tr><td>PS8512</td><td>Push No Sound No Lock</td></tr><tr><td>PS8511</td><td>Push No Lock</td></tr><tr><td>PS8510</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div></div>	PS8512	Push No Sound No Lock	PS8511	Push No Lock	PS8510	Push To Lock	Part No	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS8512	Push No Sound No Lock									
PS8511	Push No Lock									
PS8510	Push To Lock									
Part No	Operating Type									
2	<div><div>● PS8513</div><div><table><tr><td>PS8515</td><td>Push No Sound No Lock</td></tr><tr><td>PS8514</td><td>Push No Lock</td></tr><tr><td>PS8513</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div></div>	PS8515	Push No Sound No Lock	PS8514	Push No Lock	PS8513	Push To Lock	Part No	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS8515	Push No Sound No Lock									
PS8514	Push No Lock									
PS8513	Push To Lock									
Part No	Operating Type									
3	<div><div>● PS8516</div><div><table><tr><td>PS8518</td><td>Push No Sound No Lock</td></tr><tr><td>PS8517</td><td>Push No Lock</td></tr><tr><td>PS8516</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div></div>	PS8518	Push No Sound No Lock	PS8517	Push No Lock	PS8516	Push To Lock	Part No	Operating Type	<div><p>Circuit Diagram</p><p>PCB Layout Recommended</p></div>
PS8518	Push No Sound No Lock									
PS8517	Push No Lock									
PS8516	Push To Lock									
Part No	Operating Type									

PUSH BUTTON SERIES

8.5x8.5 Push Switch



HOW TO ORDER



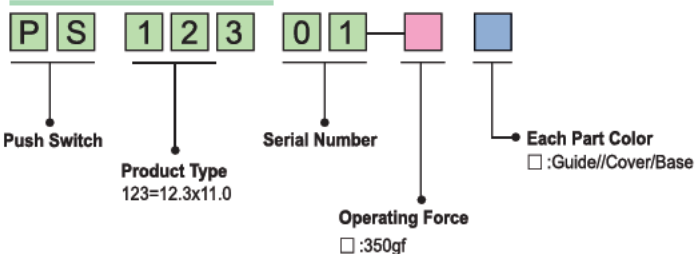
Specification

Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	10mA, 30V DC
	Insulation resistance	100MΩ min. 500V DC
	Dielectric strength	500V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	10,000 Cycles min.
Operating force		240gf

Diagram

No.	Dimensions	Circuit Diagram							
1	<div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>13.00</div><div>8.50</div></div><div><table><tr><td>PS8521</td><td>Push No Sound No Lock</td></tr><tr><td>PS8520</td><td>Push No Lock</td></tr><tr><td>PS8519</td><td>Push To Lock</td></tr><tr><td>Part No</td><td>Operating Type</td></tr></table></div><div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>3.30</div><div>3.85</div><div>5.70</div><div>8.50</div><div>2.50</div><div>5.00</div><div>2.50</div><div>0.35</div></div><div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>3.30</div><div>3.85</div><div>14.00</div><div>3.55</div><div>0.5</div><div>2.50</div></div></div></div><div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>1</div><div>4</div><div>7</div><div>12</div><div>2</div><div>5</div><div>8</div><div>11</div><div>3</div><div>6</div><div>9</div><div>10</div><div>12-φ0.8</div></div><div>2.5</div><div>5.0</div><div>2.5</div><div>2.5</div><div>2.5</div></div><div>PCB Layout Recommended</div></div>	PS8521	Push No Sound No Lock	PS8520	Push No Lock	PS8519	Push To Lock	Part No	Operating Type
PS8521	Push No Sound No Lock								
PS8520	Push No Lock								
PS8519	Push To Lock								
Part No	Operating Type								

12x12 Push Switch



Items		Standard
Operating temperature range		-30℃ to +85℃
Electrical performance	Rating	10mA, 30V DC
	Insulation resistance	100MΩ min. 500V DC
	Dielectric strength	250V AC for 1 min.
	Contact resistance	100mΩ max.
Durability	Lifetime	10,000 Cycles min.
Operating force		350gf

No.	Dimensions	Circuit Diagram								
1	<p>● PS12301</p> <table border="1"> <tr> <td>PS12302</td> <td>Push No Lock</td> </tr> <tr> <td>PS12301</td> <td>Push To Lock</td> </tr> <tr> <td>PartNo</td> <td>Operating Type</td> </tr> </table>	PS12302	Push No Lock	PS12301	Push To Lock	PartNo	Operating Type	<p>Circuit Diagram</p> <p>PCB Layout Recommended</p>		
PS12302	Push No Lock									
PS12301	Push To Lock									
PartNo	Operating Type									
2	<p>● PS12303</p> <table border="1"> <tr> <td>PS12304</td> <td>Push No Lock</td> </tr> <tr> <td>PS12303</td> <td>Push To Lock</td> </tr> <tr> <td>PartNo</td> <td>Operating Type</td> </tr> </table>	PS12304	Push No Lock	PS12303	Push To Lock	PartNo	Operating Type	<p>Circuit Diagram</p> <p>PCB Layout Recommended</p>		
PS12304	Push No Lock									
PS12303	Push To Lock									
PartNo	Operating Type									
3	<p>● PS12305</p> <table border="1"> <tr> <td>PS12307</td> <td>Push No Sound No Lock</td> </tr> <tr> <td>PS12306</td> <td>Push No Lock</td> </tr> <tr> <td>PS12305</td> <td>Push To Lock</td> </tr> <tr> <td>PartNo</td> <td>Operating Type</td> </tr> </table>	PS12307	Push No Sound No Lock	PS12306	Push No Lock	PS12305	Push To Lock	PartNo	Operating Type	<p>Circuit Diagram</p> <p>PCB Layout Recommended</p>
PS12307	Push No Sound No Lock									
PS12306	Push No Lock									
PS12305	Push To Lock									
PartNo	Operating Type									

ROTARY CODED SWITCH SERIES

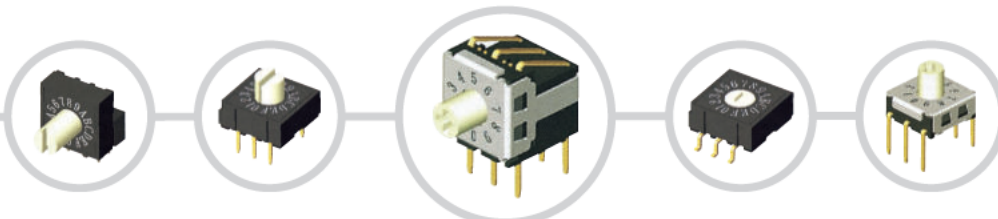
05

Features:

- Molded-in terminals and fully sealed construction.
- All plastics are UL 94V-0 grade fire retardant.
- Reliable contact and long-term stability.
- Binary decimal (8 or 10 positions) and hexadecimal (16 positions), real and complementary codes available.
- Pin-out is compatible with most of current equivalents.
- Gold plated contact to ensure low contact resistance.

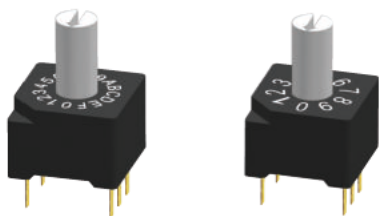
Applications:

- Address switching applications.
- Data storage devices.
- Computer and peripherals.
- Instrumentation.

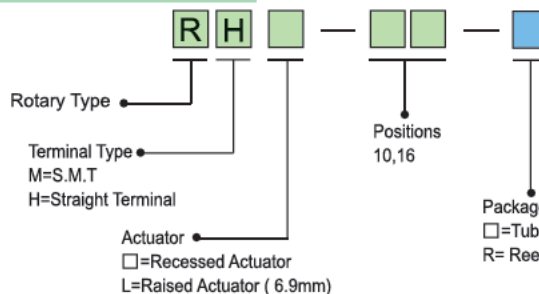


RS SERIES

10x10mm Rotary Type



HOW TO ORDER



Specification

Items		Standard	Package Tube:50pcs/tube
Environmental	Operation Temperature Range	-25℃ to +70℃	
	Storage Temperature Range	-40℃ to +85℃	
Electrical performance	Electrical Life	2,000 Steps	
	Non-Switching Rating	100mA,50VDC	
Mechanical performance	Switching Rating	25mA,24VDC	
	Operating force	500gf-cm max	

Diagram

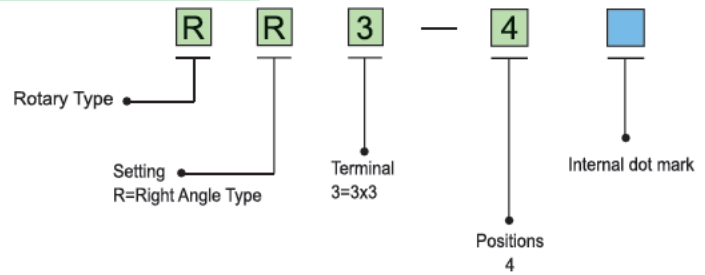
No.	Dimensions	Circuit Diagram Pad Layout																																																																																																							
1	<p>● RHL-16</p>	<table border="1"><thead><tr><th colspan="6">Output Coding</th></tr><tr><th rowspan="2">TYPE</th><th rowspan="2">POSITION</th><th colspan="4">CODE</th></tr><tr><th>1</th><th>2</th><th>4</th><th>8</th></tr></thead><tbody><tr><td rowspan="10">O 10</td><td>0</td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>●</td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td>●</td><td></td><td></td></tr><tr><td>3</td><td>●</td><td>●</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td>●</td><td></td></tr><tr><td>5</td><td>●</td><td></td><td>●</td><td></td></tr><tr><td>6</td><td></td><td>●</td><td></td><td>●</td></tr><tr><td>7</td><td>●</td><td>●</td><td>●</td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td>●</td></tr><tr><td>9</td><td>●</td><td></td><td></td><td>●</td></tr><tr><td rowspan="7">O 16</td><td>A</td><td></td><td>●</td><td></td><td>●</td></tr><tr><td>B</td><td>●</td><td></td><td></td><td>●</td></tr><tr><td>C</td><td></td><td>●</td><td></td><td>●</td></tr><tr><td>D</td><td>●</td><td></td><td>●</td><td>●</td></tr><tr><td>E</td><td></td><td>●</td><td>●</td><td>●</td></tr><tr><td>F</td><td>●</td><td>●</td><td>●</td><td>●</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	Output Coding						TYPE	POSITION	CODE				1	2	4	8	O 10	0					1	●				2		●			3	●	●			4			●		5	●		●		6		●		●	7	●	●	●		8				●	9	●			●	O 16	A		●		●	B	●			●	C		●		●	D	●		●	●	E		●	●	●	F	●	●	●	●					
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2	<p>● RHL-10</p>																																																																																																								

RS SERIES

10x10mm Selector Rotary Type



HOW TO ORDER



Specification

Items		Standard	Package Tube:48pcs/tube
Environmental	Operation Temperature Range	-25℃ to +80℃	
	Storage Temperature Range	-40℃ to +85℃	
Electrical performance	Electrical Life	20,000 steps	
	Non-Switching Rating	100mA,50VDC	
	Switching Rating	25mA,24VDC	
Mechanical performance	Operating force	200gf-cm max	

Diagram

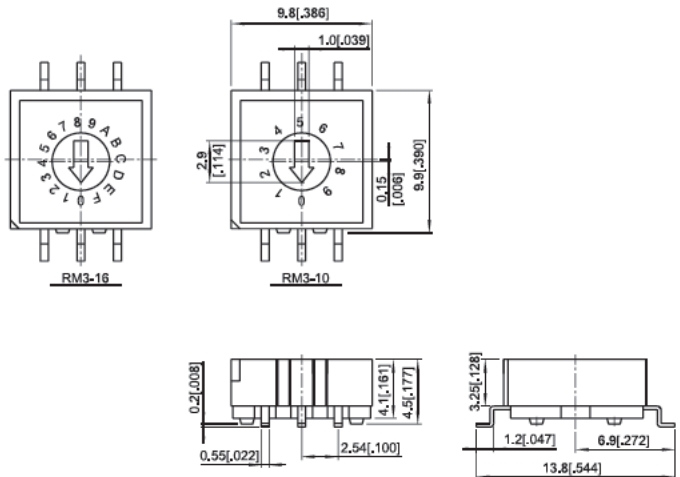
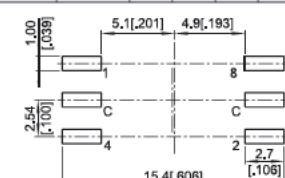
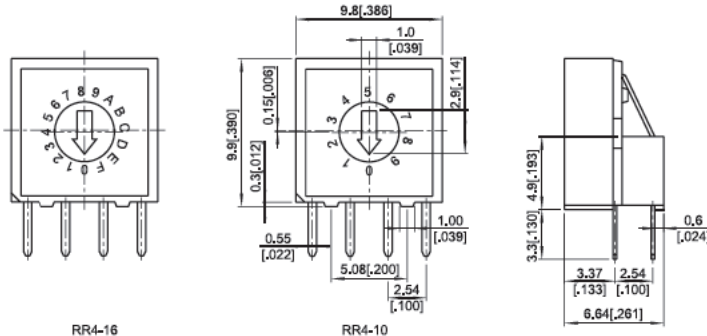
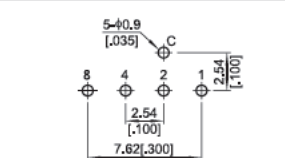
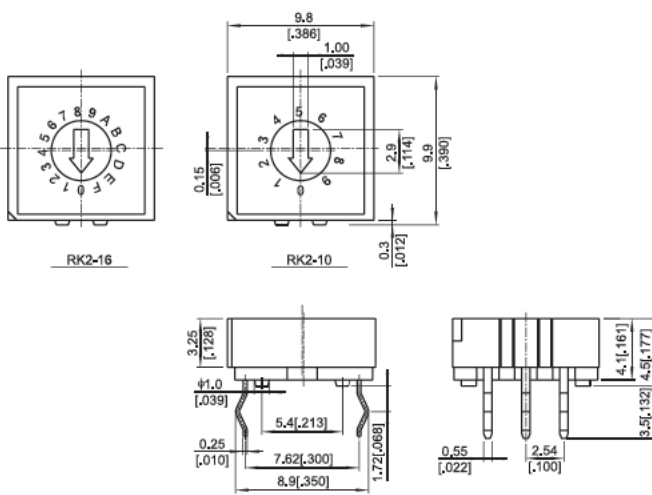
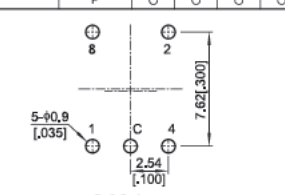
No.	Dimensions	Circuit Diagram																													
		Pad Layout																													
1	<div>● RR3-4</div> <div></div>	<div><div><div>○ ON</div><div>● OFF</div></div><table><tr><th rowspan="2">POSITION</th><th colspan="4">CODE</th></tr><tr><th>15</th><th>30</th><th>75</th><th>110</th></tr><tr><td>15</td><td>○</td><td>●</td><td>●</td><td>●</td></tr><tr><td>30</td><td>●</td><td>○</td><td>●</td><td>●</td></tr><tr><td>75</td><td>●</td><td>●</td><td>○</td><td>●</td></tr><tr><td>110</td><td>●</td><td>●</td><td>●</td><td>○</td></tr></table><div>Circuit Chart</div></div> <div><div>P.C.B. Layout</div></div>	POSITION	CODE				15	30	75	110	15	○	●	●	●	30	●	○	●	●	75	●	●	○	●	110	●	●	●	○
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RS SERIES

10x10mm Rotary Type

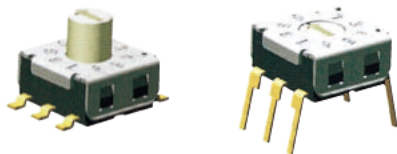


Diagram

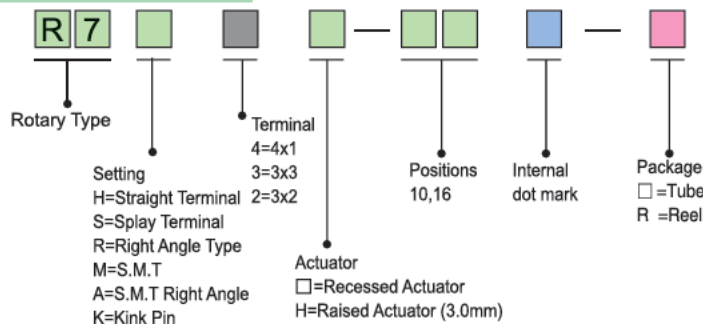
No.	Dimensions	Circuit Diagram Pad Layout																																																																																												
2	<div><div>● RM3</div><div><div>RM3-16RM3-10</div></div></div>	<div><div>○ ON ● OFF</div><table><tr><th rowspan="2">TYPE</th><th rowspan="2">POSITION</th><th colspan="4">CODE</th></tr><tr><th>1</th><th>2</th><th>4</th><th>8</th></tr><tr><td rowspan="10">O10</td><td>0</td><td>●</td><td>●</td><td>●</td><td>●</td></tr><tr><td>1</td><td>○</td><td>○</td><td>●</td><td>●</td></tr><tr><td>2</td><td>●</td><td>○</td><td>●</td><td>●</td></tr><tr><td>3</td><td>○</td><td>○</td><td>○</td><td>●</td></tr><tr><td>4</td><td>●</td><td>●</td><td>○</td><td>●</td></tr><tr><td>5</td><td>○</td><td>○</td><td>○</td><td>●</td></tr><tr><td>6</td><td>●</td><td>○</td><td>○</td><td>●</td></tr><tr><td>7</td><td>○</td><td>○</td><td>○</td><td>●</td></tr><tr><td>8</td><td>●</td><td>○</td><td>●</td><td>○</td></tr><tr><td>9</td><td>○</td><td>●</td><td>●</td><td>○</td></tr><tr><td rowspan="6">O16</td><td>A</td><td>●</td><td>○</td><td>●</td><td>○</td></tr><tr><td>B</td><td>○</td><td>○</td><td>●</td><td>○</td></tr><tr><td>C</td><td>●</td><td>●</td><td>○</td><td>○</td></tr><tr><td>D</td><td>○</td><td>○</td><td>○</td><td>○</td></tr><tr><td>E</td><td>●</td><td>○</td><td>○</td><td>○</td></tr><tr><td>F</td><td>○</td><td>○</td><td>○</td><td>○</td></tr></table><div><p>P.C.B. Layout</p></div></div>	TYPE	POSITION	CODE				1	2	4	8	O10	0	●	●	●	●	1	○	○	●	●	2	●	○	●	●	3	○	○	○	●	4	●	●	○	●	5	○	○	○	●	6	●	○	○	●	7	○	○	○	●	8	●	○	●	○	9	○	●	●	○	O16	A	●	○	●	○	B	○	○	●	○	C	●	●	○	○	D	○	○	○	○	E	●	○	○	○	F	○	○	○	○
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RS SERIES

7x7mm Rotary Type



HOW TO ORDER



Specification

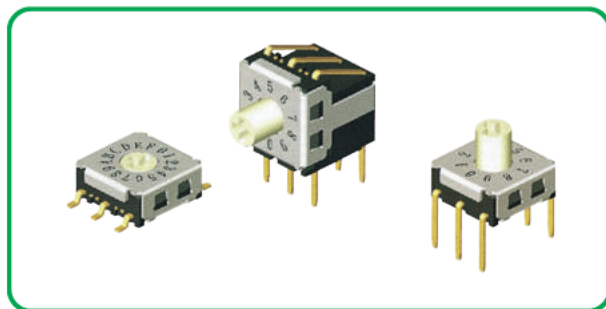
Items		Standard	Package R7M2:1200pcs/reel R7M2H:650pcs/reel Tube:62pcs/tube
Environmental	Operation Temperature Range	-40℃ to +85℃	
	Storage Temperature Range	-40℃ to +85℃	
Electrical performance	Electrical Life	20,000 steps	
	Switching Rating	25mA, 24VDC	
Mechanical performance	Operating force	200gf-cm max	

Diagram

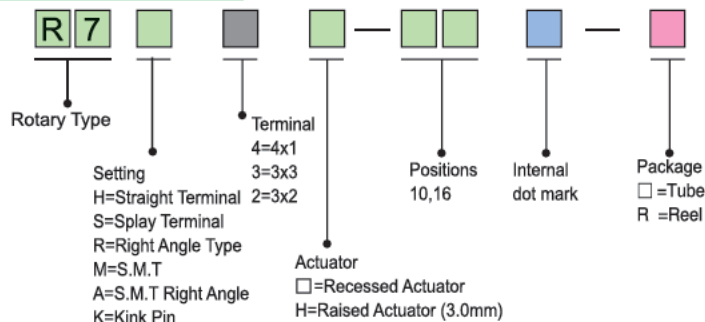
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RS SERIES

7x7mm Rotary Type



HOW TO ORDER



Specification

Items		Standard	Package R7H,R7M:63pcs/tube R7R:60pcs/tube R7M*:1450pcs/reel R7M*H:850pcs/reel R7A:750pcs/reel R7A4H:750pcs/reel
Environmental	Operation Temperature Range	-30℃ to +80℃	
	Storage Temperature Range	-40℃ to +85℃	
Electrical performance	Electrical Life	10,000 steps	
	Switching Rating	25mA,24VDC	
Mechanical performance	Operating force	200gf-cm max	

Diagram

No.	Dimensions	Circuit Diagram Pad Layout																																																																																																								
1	<div>● R7M3</div> <div><table><tr><th>Name</th><th>H</th></tr><tr><td>R7M3-10</td><td>0</td></tr><tr><td>R7M3-16</td><td>0</td></tr><tr><td>R7M3H-10</td><td>3.00[.1181]</td></tr><tr><td>R7M3H-16</td><td>3.00[.1181]</td></tr></table></div>	Name	H	R7M3-10	0	R7M3-16	0	R7M3H-10	3.00[.1181]	R7M3H-16	3.00[.1181]	<div>○ ON ● OFF</div> <table><tr><th>TYPE</th><th>POSITION</th><th colspan="4">CODE</th></tr><tr><th></th><th></th><th>1</th><th>2</th><th>4</th><th>8</th></tr><tr><td rowspan="10">O10</td><td>0</td><td>●</td><td>●</td><td>●</td><td>●</td></tr><tr><td>1</td><td>○</td><td>○</td><td>●</td><td>●</td></tr><tr><td>2</td><td>●</td><td>○</td><td>●</td><td>●</td></tr><tr><td>3</td><td>○</td><td>○</td><td>○</td><td>●</td></tr><tr><td>4</td><td>●</td><td>○</td><td>○</td><td>●</td></tr><tr><td>5</td><td>○</td><td>○</td><td>○</td><td>●</td></tr><tr><td>6</td><td>●</td><td>○</td><td>○</td><td>●</td></tr><tr><td>7</td><td>○</td><td>○</td><td>○</td><td>●</td></tr><tr><td>8</td><td>●</td><td>○</td><td>○</td><td>●</td></tr><tr><td>9</td><td>○</td><td>○</td><td>○</td><td>●</td></tr><tr><td rowspan="6">O16</td><td>A</td><td>●</td><td>○</td><td>○</td><td>○</td></tr><tr><td>B</td><td>○</td><td>○</td><td>○</td><td>○</td></tr><tr><td>C</td><td>●</td><td>○</td><td>○</td><td>○</td></tr><tr><td>D</td><td>○</td><td>○</td><td>○</td><td>○</td></tr><tr><td>E</td><td>●</td><td>○</td><td>○</td><td>○</td></tr><tr><td>F</td><td>○</td><td>○</td><td>○</td><td>○</td></tr></table> <div><p>P.C.B. Layout</p></div>	TYPE	POSITION	CODE						1	2	4	8	O10	0	●	●	●	●	1	○	○	●	●	2	●	○	●	●	3	○	○	○	●	4	●	○	○	●	5	○	○	○	●	6	●	○	○	●	7	○	○	○	●	8	●	○	○	●	9	○	○	○	●	O16	A	●	○	○	○	B	○	○	○	○	C	●	○	○	○	D	○	○	○	○	E	●	○	○	○	F	○	○	○	○
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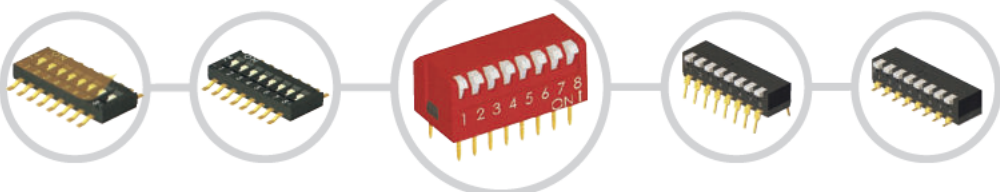
DIP SWITCH SERIES

Features:

- Smaller size makes better heat convection during PC board wave soldering.
- Top tape sealed to withstand wave soldering, board washing.
- All plastics are UL 94V-0 grade fire retardant.
- Gold plated contact to ensure low contact resistance and long mechanical life.

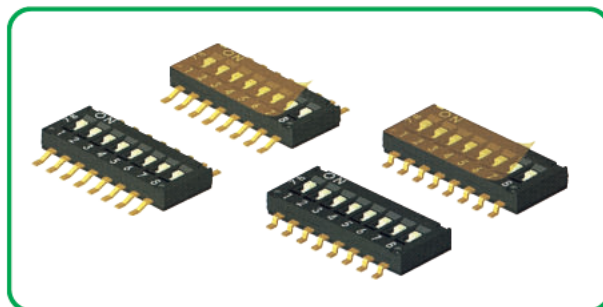
Applications:

- Hand-held electronic devices, such as PDA, MP3, radios.
- Portable computer and electronic devices, such as notebook, computers.
- Instrumentation and industrial control products, such as CDROM, coin changers.

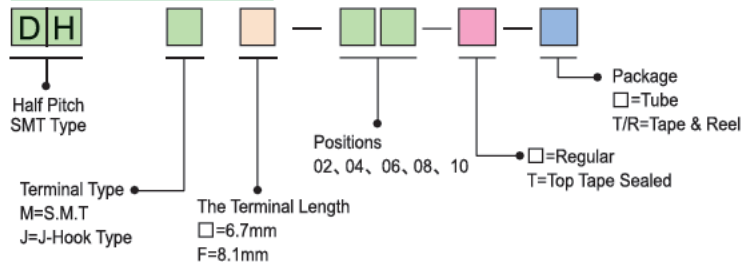


SMT SERIES

1.6mm Half Pitch SMT Type



HOW TO ORDER



Precaution: For quality assurance, please operate actuators carefully refer specification.

Specification

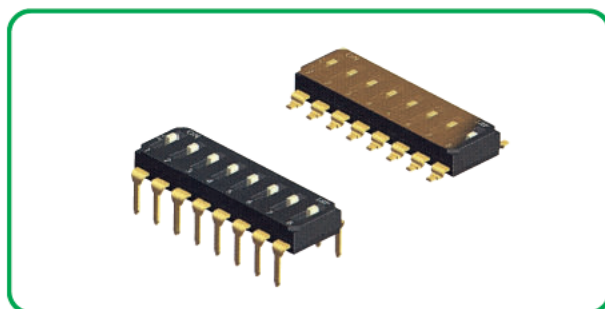
Items		Standard	Package DHM(F)-02(-T):125pcs/tube DHM(F)-04(-T):75pcs/tube DHM(F)-06(-T):54pcs/tube DHM(F)-08(-T):40pcs/tube DHM(F)-10(-T):33pcs/tube Tape and Reel: DHM(F) series:2500 pcs/reel
Environmental	Operation Temperature Range	-40℃ to +85℃	
	Storage Temperature Range	-40℃ to +85℃	
Electrical performance	Electrical Life	1000 operation cycles	
	Non-Switching Rating	100mA,50VDC	
	Switching Rating	25mA,24VDC	
Mechanical performance	Operating force	500gf	
	Stroke	0.6mm	

Diagram

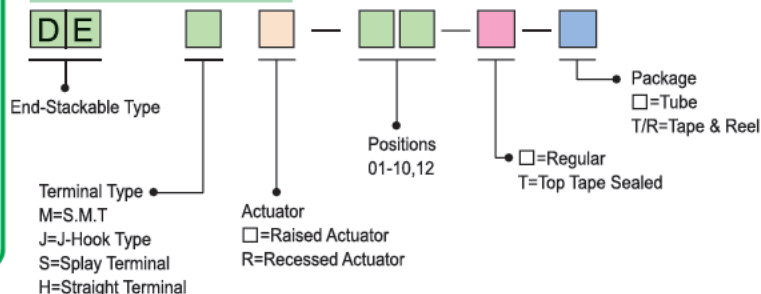
No.	Dimensions	Circuit Diagram Pad Layout																		
1	<p>● DHMF</p>	<table border="1"> <tr><td>DHMF-10</td><td>10</td><td>13.93[.548]</td></tr> <tr><td>DHMF-08</td><td>08</td><td>11.39[.448]</td></tr> <tr><td>DHMF-06</td><td>06</td><td>8.85[.348]</td></tr> <tr><td>DHMF-04</td><td>04</td><td>6.31[.248]</td></tr> <tr><td>DHMF-02</td><td>02</td><td>3.77[.148]</td></tr> <tr><td>PROD.NO.</td><td>NO.OF POS.</td><td>DM.A</td></tr> </table> <p>P.C.B Layout</p>	DHMF-10	10	13.93[.548]	DHMF-08	08	11.39[.448]	DHMF-06	06	8.85[.348]	DHMF-04	04	6.31[.248]	DHMF-02	02	3.77[.148]	PROD.NO.	NO.OF POS.	DM.A
DHMF-10	10	13.93[.548]																		
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2	<p>● DHM</p>	<table border="1"> <tr><td>DHM-10</td><td>10</td><td>13.93[.548]</td></tr> <tr><td>DHM-08</td><td>08</td><td>11.39[.448]</td></tr> <tr><td>DHM-06</td><td>06</td><td>8.85[.348]</td></tr> <tr><td>DHM-04</td><td>04</td><td>6.31[.248]</td></tr> <tr><td>DHM-02</td><td>02</td><td>3.77[.148]</td></tr> <tr><td>PROD.NO.</td><td>NO.OF POS.</td><td>DM.A</td></tr> </table> <p>P.C.B Layout</p>	DHM-10	10	13.93[.548]	DHM-08	08	11.39[.448]	DHM-06	06	8.85[.348]	DHM-04	04	6.31[.248]	DHM-02	02	3.77[.148]	PROD.NO.	NO.OF POS.	DM.A
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DHM-02	02	3.77[.148]																		
PROD.NO.	NO.OF POS.	DM.A																		

DIP SERIES

End-Stackable Type



HOW TO ORDER



Specification

Items		Standard	Package DEM(R)/DEH(R)/DES(R)-01:194pcs/tube DEM(R)/DEH(R)/DES(R)-02:95pcs/tube DEM(R)/DEH(R)/DES(R)-03:63pcs/tube DEM(R)/DEH(R)/DES(R)/DEJ(R)-04:47pcs/tube DEM(R)/DEH(R)/DES(R)-05:38pcs/tube DEM(R)/DEH(R)/DES(R)-06:31pcs/tube DEM(R)/DEH(R)/DES(R)-07:27pcs/tube DEM(R)/DEH(R)/DES(R)/DEJ(R)-08:23pcs/tube DEM(R)/DEH(R)/DES(R)-09:21pcs/tube DEM(R)/DEH(R)/DES(R)/DEJ(R)-10:19pcs/tube DEM(R)/DEH(R)/DES(R)-12:15pcs/tube DEM(R)-01~10,12:900 pcs/reel
Environmental	Operation Temperature Range	-20℃ to +85℃	
	Storage Temperature Range	-40℃ to +85℃	
Electrical performance	Electrical Life	2000 cycles	
	Switching Rating	25mA,24VDC	
Mechanical performance	Operating force	1,000gf max.	
	Stroke	1.0mm	

Diagram

No.	Dimensions	Circuit Diagram Pad Layout
1	<div>● DEM</div> <div><p>Top View Dimensions: Overall Width: A Overall Height: B Position 1 Width: 1.22[.048] Position 2 Width: 2.54[.100] Position 3 Width: 2.00[.079] Position 4 Width: 2.00[.079] Position 5 Width: 2.00[.079] Position 6 Width: 2.00[.079] Position 7 Width: 2.00[.079] Position 8 Width: 2.00[.079] Position 9 Width: 2.00[.079] Position 10 Width: 2.00[.079] Position 11 Width: 2.00[.079] Position 12 Width: 2.00[.079] Position 13 Width: 2.00[.079] Position 14 Width: 2.00[.079] Position 15 Width: 2.00[.079] Position 16 Width: 2.00[.079] Position 17 Width: 2.00[.079] Position 18 Width: 2.00[.079] Position 19 Width: 2.00[.079] Position 20 Width: 2.00[.079] Position 21 Width: 2.00[.079] Position 22 Width: 2.00[.079] Position 23 Width: 2.00[.079] Position 24 Width: 2.00[.079] Position 25 Width: 2.00[.079] Position 26 Width: 2.00[.079] Position 27 Width: 2.00[.079] Position 28 Width: 2.00[.079] Position 29 Width: 2.00[.079] Position 30 Width: 2.00[.079] Position 31 Width: 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DIP SERIES

End Stackable/SMT & Through Hole Type

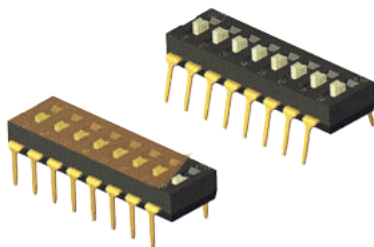


Diagram

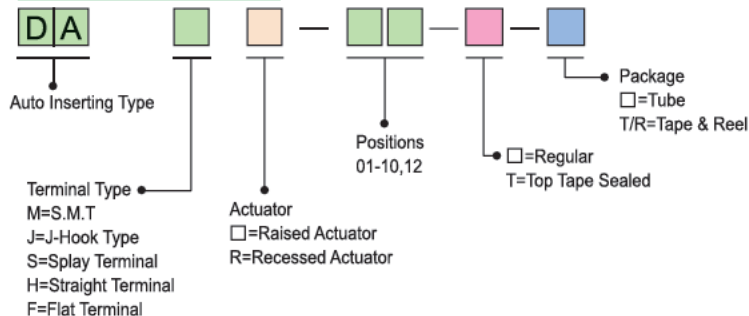
No.	Dimensions	Circuit Diagram Pad Layout																																																
2	<div><div>● DEH</div><div></div></div>	<table><tr><td>DEH-12</td><td>12</td><td>30.38[1.196]</td><td>27.94[1.100]</td></tr><tr><td>DEH-10</td><td>10</td><td>25.3[.996]</td><td>22.86[.900]</td></tr><tr><td>DEH-09</td><td>9</td><td>22.76[.896]</td><td>20.32[.800]</td></tr><tr><td>DEH-08</td><td>8</td><td>20.22[.796]</td><td>17.78[.700]</td></tr><tr><td>DEH-07</td><td>7</td><td>17.68[.696]</td><td>15.24[.600]</td></tr><tr><td>DEH-06</td><td>6</td><td>15.14[.596]</td><td>12.70[.500]</td></tr><tr><td>DEH-05</td><td>5</td><td>12.6[.496]</td><td>10.16[.400]</td></tr><tr><td>DEH-04</td><td>4</td><td>10.06[.396]</td><td>7.62[.300]</td></tr><tr><td>DEH-03</td><td>3</td><td>7.52[.296]</td><td>5.08[.200]</td></tr><tr><td>DEH-02</td><td>2</td><td>4.98[.196]</td><td>2.54[.100]</td></tr><tr><td>DEH-01</td><td>1</td><td>2.44[.096]</td><td>---</td></tr></table> <table><tr><th>PROD.NO.</th><th>NO. OF POS.</th><th>DIM.A</th><th>DIM.B</th></tr></table> <p>SCHEMATIC(TYP.)</p> <p>○ ○</p>	DEH-12	12	30.38[1.196]	27.94[1.100]	DEH-10	10	25.3[.996]	22.86[.900]	DEH-09	9	22.76[.896]	20.32[.800]	DEH-08	8	20.22[.796]	17.78[.700]	DEH-07	7	17.68[.696]	15.24[.600]	DEH-06	6	15.14[.596]	12.70[.500]	DEH-05	5	12.6[.496]	10.16[.400]	DEH-04	4	10.06[.396]	7.62[.300]	DEH-03	3	7.52[.296]	5.08[.200]	DEH-02	2	4.98[.196]	2.54[.100]	DEH-01	1	2.44[.096]	---	PROD.NO.	NO. OF POS.	DIM.A	DIM.B
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DIP SERIES

Auto Inserting IC Type



HOW TO ORDER



Specification

Items		Standard	Package DAH(R)-01(-T):130pcs/tube DAH(R)-02(-T):76pcs/tube DAH(R)-03(-T):55pcs/tube DAH(R)-04(-T):42pcs/tube DAH(R)-05(-T):34pcs/tube DAH(R)-06(-T):29pcs/tube DAH(R)-07(-T):25pcs/tube DAH(R)-08(-T):22pcs/tube DAH(R)-09(-T):20pcs/tube DAH(R)-10(-T):18pcs/tube DAH(R)-12(-T):15pcs/tube
Environmental	Operation Temperature Range	-20℃ to +85℃	
	Storage Temperature Range	-40℃ to +85℃	
Electrical performance	Electrical Life	2,000 operations	
	Non-Switching Rating	100mA,50VDC	
	Switching Rating	25mA,24VDC	
Mechanical performance	Mechanical Life	2,000 operations	
	Operating force	1,000gf max.	
	Stroke	1.0mm	

Diagram

No.	Dimensions	Circuit Diagram Pad Layout																																																
1	<p>● DAH(S)</p> <p>Splay Terminal</p> <p>Straight Terminal</p>	<table><tr><td>DAH-12 DAHR-12</td><td>12</td><td>31.42[1.237]</td><td>27.94[1.100]</td></tr><tr><td>DAH-10 DAHR-10</td><td>10</td><td>26.34[1.037]</td><td>22.86[.900]</td></tr><tr><td>DAH-09 DAHR-09</td><td>9</td><td>23.80[.937]</td><td>20.32[.800]</td></tr><tr><td>DAH-08 DAHR-08</td><td>8</td><td>21.26[.837]</td><td>17.78[.700]</td></tr><tr><td>DAH-07 DAHR-07</td><td>7</td><td>18.72[.737]</td><td>15.24[.600]</td></tr><tr><td>DAH-06 DAHR-06</td><td>6</td><td>16.18[.637]</td><td>12.70[.500]</td></tr><tr><td>DAH-05 DAHR-05</td><td>5</td><td>13.64[.537]</td><td>10.16[.400]</td></tr><tr><td>DAH-04 DAHR-04</td><td>4</td><td>11.10[.437]</td><td>7.62[.300]</td></tr><tr><td>DAH-03 DAHR-03</td><td>3</td><td>8.56[.337]</td><td>5.08[.200]</td></tr><tr><td>DAH-02 DAHR-02</td><td>2</td><td>6.02[.237]</td><td>2.54[.100]</td></tr><tr><td>DAH-01 DAHR-01</td><td>1</td><td>3.48[.137]</td><td>---</td></tr><tr><td>PROD.NO</td><td>NO.OF POS.</td><td>DIM.A</td><td>DIM.B</td></tr></table> <p>SCHEMATIC(TYP.)</p> <p>(1,2,3,4,5,6,7,8,9,10,12,POS AVAIL)</p> <p>P.C.B. Layout</p>	DAH-12 DAHR-12	12	31.42[1.237]	27.94[1.100]	DAH-10 DAHR-10	10	26.34[1.037]	22.86[.900]	DAH-09 DAHR-09	9	23.80[.937]	20.32[.800]	DAH-08 DAHR-08	8	21.26[.837]	17.78[.700]	DAH-07 DAHR-07	7	18.72[.737]	15.24[.600]	DAH-06 DAHR-06	6	16.18[.637]	12.70[.500]	DAH-05 DAHR-05	5	13.64[.537]	10.16[.400]	DAH-04 DAHR-04	4	11.10[.437]	7.62[.300]	DAH-03 DAHR-03	3	8.56[.337]	5.08[.200]	DAH-02 DAHR-02	2	6.02[.237]	2.54[.100]	DAH-01 DAHR-01	1	3.48[.137]	---	PROD.NO	NO.OF POS.	DIM.A	DIM.B
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PROD.NO	NO.OF POS.	DIM.A	DIM.B																																															

DIP SERIES

Auto Inserting Type



Diagram

No.	Dimensions	Circuit Diagram Pad Layout																																												
2	<div>● DAJ</div> <div><p>Top View Dimensions: A: Total length B: Pitch (2.54 TYP.) Pin 1: 1.74 [.069] Pin 2: 2.54 [.100] TYP. Pin 3: 1.74 [.069] Pin 4: 2.54 [.100] TYP. Pin 5: 1.74 [.069] Pin 6: 2.54 [.100] TYP. Pin 7: 1.74 [.069] Pin 8: 2.54 [.100] TYP. Pin 9: 1.74 [.069] Pin 10: 2.54 [.100] TYP. Pin 11: 1.74 [.069] Pin 12: 2.54 [.100] TYP.</p><p>Side View Dimensions: Height: 3.00 [.118] Lead: 0.15 [.006] Lead Angle: 0.25 [.010] Lead Length: 0.78 [.031] Lead Width: 1.80 [.070] Lead Spacing: 1.00 [.040] Lead Thickness: 0.70 [.028] Lead Radius: R0.63 [R.025]</p><p>DJR Series DJ Series</p></div>	<table><tr><td>DAJ-12 DAJR-12</td><td>12</td><td>31.42[1.237]</td><td>27.94[1.100]</td></tr><tr><td>DAJ-10 DAJR-10</td><td>10</td><td>26.34[1.037]</td><td>22.86[.900]</td></tr><tr><td>DAJ-09 DAJR-09</td><td>9</td><td>23.80[.937]</td><td>20.32[.800]</td></tr><tr><td>DAJ-08 DAJR-08</td><td>8</td><td>21.26[.837]</td><td>17.78[.700]</td></tr><tr><td>DAJ-07 DAJR-07</td><td>7</td><td>18.72[.737]</td><td>15.24[.600]</td></tr><tr><td>DAJ-06 DAJR-06</td><td>6</td><td>16.18[.637]</td><td>12.70[.500]</td></tr><tr><td>DAJ-05 DAJR-05</td><td>5</td><td>13.64[.537]</td><td>10.16[.400]</td></tr><tr><td>DAJ-04 DAJR-04</td><td>4</td><td>11.10[.437]</td><td>7.62[.300]</td></tr><tr><td>DAJ-03 DAJR-03</td><td>3</td><td>8.56[.337]</td><td>5.08[.200]</td></tr><tr><td>DAJ-02 DAJR-02</td><td>2</td><td>6.02[.237]</td><td>2.54[.100]</td></tr><tr><td>DAJ-01 DAJR-01</td><td>1</td><td>---</td><td>---</td></tr></table> <div>PROD.NO. NO.OF POS. DIM.A DIM.B</div> <div>SCHEMATIC(TYP.)</div> <div><p>(1,2,3,4,5,6,7,8,9,10,12, POS AVAIL)</p></div> <div><p>P.C.B. Layout</p></div>	DAJ-12 DAJR-12	12	31.42[1.237]	27.94[1.100]	DAJ-10 DAJR-10	10	26.34[1.037]	22.86[.900]	DAJ-09 DAJR-09	9	23.80[.937]	20.32[.800]	DAJ-08 DAJR-08	8	21.26[.837]	17.78[.700]	DAJ-07 DAJR-07	7	18.72[.737]	15.24[.600]	DAJ-06 DAJR-06	6	16.18[.637]	12.70[.500]	DAJ-05 DAJR-05	5	13.64[.537]	10.16[.400]	DAJ-04 DAJR-04	4	11.10[.437]	7.62[.300]	DAJ-03 DAJR-03	3	8.56[.337]	5.08[.200]	DAJ-02 DAJR-02	2	6.02[.237]	2.54[.100]	DAJ-01 DAJR-01	1	---	---
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DAJ-02 DAJR-02	2	6.02[.237]	2.54[.100]																																											
DAJ-01 DAJR-01	1	---	---																																											
3	<div>● DAF</div> <div><p>Top View Dimensions: A: Total length B: Pitch (2.54 TYP.) Pin 1: 1.74 [.069] Pin 2: 2.54 [.100] TYP. Pin 3: 1.74 [.069] Pin 4: 2.54 [.100] TYP. Pin 5: 1.74 [.069] Pin 6: 2.54 [.100] TYP. Pin 7: 1.74 [.069] Pin 8: 2.54 [.100] TYP. Pin 9: 1.74 [.069] Pin 10: 2.54 [.100] TYP. Pin 11: 1.74 [.069] Pin 12: 2.54 [.100] TYP.</p><p>Side View Dimensions: Height: 3.00 [.118] Lead: 0.15 [.006] Lead Angle: 0.25 [.010] Lead Length: 0.78 [.031] Lead Width: 1.80 [.070] Lead Spacing: 1.00 [.040] Lead Thickness: 0.70 [.028] Lead Radius: R0.63 [R.025]</p><p>DLR Series DL Series</p></div>	<table><tr><td>DAF-12 DAFR-12</td><td>12</td><td>31.42[1.237]</td><td>27.94[1.100]</td></tr><tr><td>DAF-10 DAFR-10</td><td>10</td><td>26.34[1.037]</td><td>22.86[.900]</td></tr><tr><td>DAF-09 DAFR-09</td><td>9</td><td>23.80[.937]</td><td>20.32[.800]</td></tr><tr><td>DAF-08 DAFR-08</td><td>8</td><td>21.26[.837]</td><td>17.78[.700]</td></tr><tr><td>DAF-07 DAFR-07</td><td>7</td><td>18.72[.737]</td><td>15.24[.600]</td></tr><tr><td>DAF-06 DAFR-06</td><td>6</td><td>16.18[.637]</td><td>12.70[.500]</td></tr><tr><td>DAF-05 DAFR-05</td><td>5</td><td>13.64[.537]</td><td>10.16[.400]</td></tr><tr><td>DAF-04 DAFR-04</td><td>4</td><td>11.10[.437]</td><td>7.62[.300]</td></tr><tr><td>DAF-03 DAFR-03</td><td>3</td><td>8.56[.337]</td><td>5.08[.200]</td></tr><tr><td>DAF-02 DAFR-02</td><td>2</td><td>6.02[.237]</td><td>2.54[.100]</td></tr><tr><td>DAF-01 DAFR-01</td><td>1</td><td>3.48[.137]</td><td>---</td></tr></table> <div>PROD.NO. NO.OF POS. DIM.A DIM.B</div> <div>SCHEMATIC(TYP.)</div> <div><p>(1,2,3,4,5,6,7,8,9,10,12, POS AVAIL)</p></div> <div><p>P.C.B. Layout</p></div>	DAF-12 DAFR-12	12	31.42[1.237]	27.94[1.100]	DAF-10 DAFR-10	10	26.34[1.037]	22.86[.900]	DAF-09 DAFR-09	9	23.80[.937]	20.32[.800]	DAF-08 DAFR-08	8	21.26[.837]	17.78[.700]	DAF-07 DAFR-07	7	18.72[.737]	15.24[.600]	DAF-06 DAFR-06	6	16.18[.637]	12.70[.500]	DAF-05 DAFR-05	5	13.64[.537]	10.16[.400]	DAF-04 DAFR-04	4	11.10[.437]	7.62[.300]	DAF-03 DAFR-03	3	8.56[.337]	5.08[.200]	DAF-02 DAFR-02	2	6.02[.237]	2.54[.100]	DAF-01 DAFR-01	1	3.48[.137]	---
DAF-12 DAFR-12	12	31.42[1.237]	27.94[1.100]																																											
DAF-10 DAFR-10	10	26.34[1.037]	22.86[.900]																																											
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DAF-03 DAFR-03	3	8.56[.337]	5.08[.200]																																											
DAF-02 DAFR-02	2	6.02[.237]	2.54[.100]																																											
DAF-01 DAFR-01	1	3.48[.137]	---																																											

DIP SERIES

New Piano Type

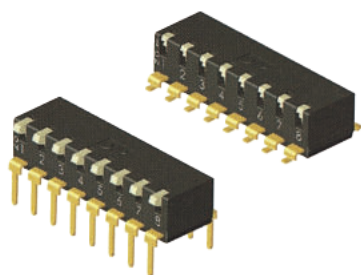


Diagram

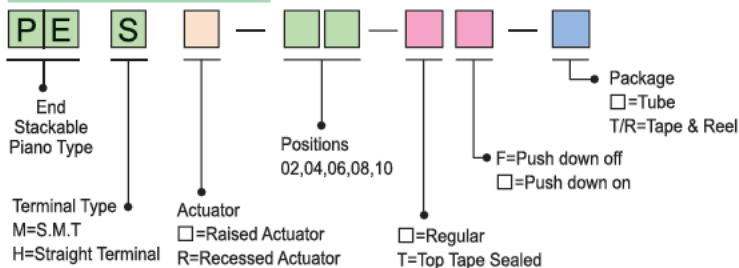
No.	Dimensions	Circuit Diagram			
		Pad Layout			
2	<p>● DPM</p>	DPM-10	10	26.8[1.055]	22.86[.900]
		DPM-08	8	21.72[.855]	17.78[.700]
		DPM-06	6	16.64[.655]	12.70[.500]
		DPM-04	4	11.56[.455]	7.62[.300]
		DPM-02	2	6.48[.255]	2.54[.100]
		PROD.NO.	NO.OF POS.	DIM.A	DIM.B
		SCHEMATIC(TYP.)			
		<p>Circuit Diagram</p>			
		<p>P.C.B. Layout</p>			

DIP SERIES

End Stackable Piano Type



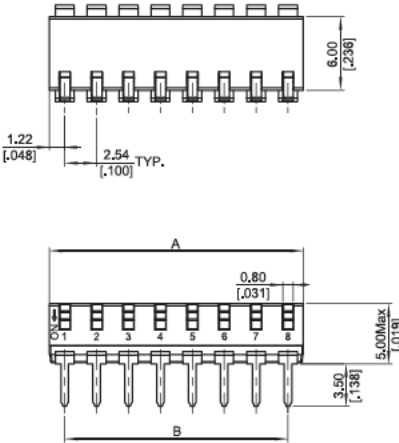
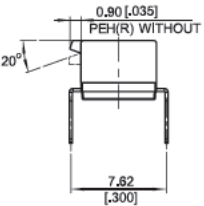
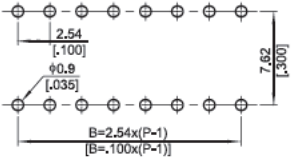
HOW TO ORDER



Specification

Items		Standard	Package
Environmental	Operation Temperature Range	-20℃ to +85℃	
	Storage Temperature Range	-40℃ to +85℃	
Electrical performance	Electrical Life	2,000 cycles	
	Switching Rating	25mA,24VDC	
Mechanical performance	Operating force	800gf max.	

Diagram

No.	Dimensions	Circuit Diagram																								
		Pad Layout																								
1	● PEH	<table><tr><td>PEH-10 PEHR-10</td><td>10</td><td>25.30[.996]</td><td>22.86[.900]</td></tr><tr><td>PEH-08 PEHR-08</td><td>8</td><td>20.22[.796]</td><td>17.78[.700]</td></tr><tr><td>PEH-06 PEHR-06</td><td>6</td><td>15.14[.596]</td><td>12.70[.500]</td></tr><tr><td>PEH-04 PEHR-04</td><td>4</td><td>10.06[.396]</td><td>7.62[.300]</td></tr><tr><td>PEH-02 PEHR-02</td><td>2</td><td>4.89[.196]</td><td>2.54[.100]</td></tr><tr><td>PROD.NO.</td><td>NO.OF POS.</td><td>DIM.A</td><td>DIM.B</td></tr></table> <p>SCHEMATIC(TYP.)</p> <p> (2,4,6,8,10 POS AVAIL)</p> <p></p> <p></p> <p> P,C,B, Layout</p>	PEH-10 PEHR-10	10	25.30[.996]	22.86[.900]	PEH-08 PEHR-08	8	20.22[.796]	17.78[.700]	PEH-06 PEHR-06	6	15.14[.596]	12.70[.500]	PEH-04 PEHR-04	4	10.06[.396]	7.62[.300]	PEH-02 PEHR-02	2	4.89[.196]	2.54[.100]	PROD.NO.	NO.OF POS.	DIM.A	DIM.B
	PEH-10 PEHR-10	10	25.30[.996]	22.86[.900]																						
PEH-08 PEHR-08	8	20.22[.796]	17.78[.700]																							
PEH-06 PEHR-06	6	15.14[.596]	12.70[.500]																							
PEH-04 PEHR-04	4	10.06[.396]	7.62[.300]																							
PEH-02 PEHR-02	2	4.89[.196]	2.54[.100]																							
PROD.NO.	NO.OF POS.	DIM.A	DIM.B																							

DIP SERIES

End Stackable Piano Type

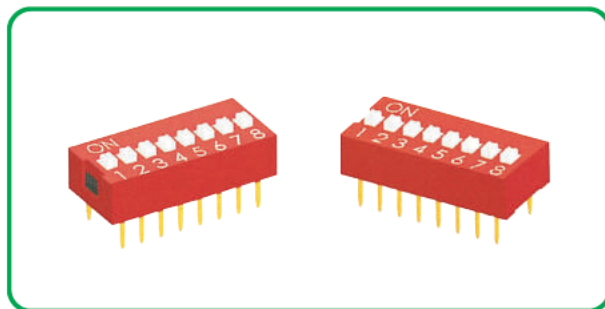


Diagram

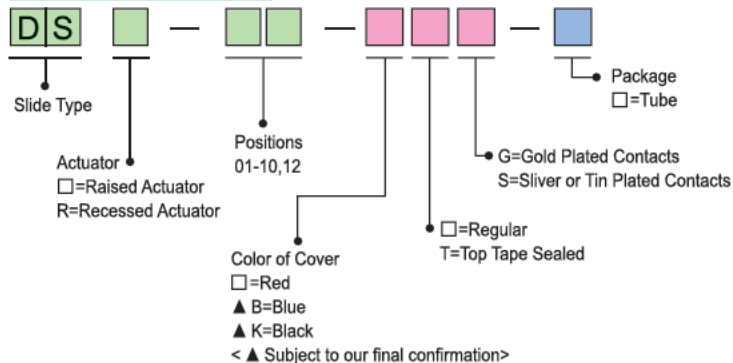
No.	Dimensions	Circuit Diagram			
		Pad Layout			
2	<p>● PEM</p>	PEM-10 PEMR-10	10	25.30[.996]	22.86[.900]
		PEM-08 PEMR-08	8	20.22[.796]	17.78[.700]
		PEM-06 PEMR-06	6	15.14[.596]	12.70[.500]
		PEM-04 PEMR-04	4	10.06[.396]	7.62[.300]
		PEM-02 PEMR-02	2	4.89[.196]	2.54[.100]
		PROD.NO.	NO.OF POS.	DIM.A	DIM.B
		SCHEMATIC(TYP.)			
		<p>P.C.B. Layout</p>			

DIP SERIES

Slide Type Dip Switch



HOW TO ORDER



Specification

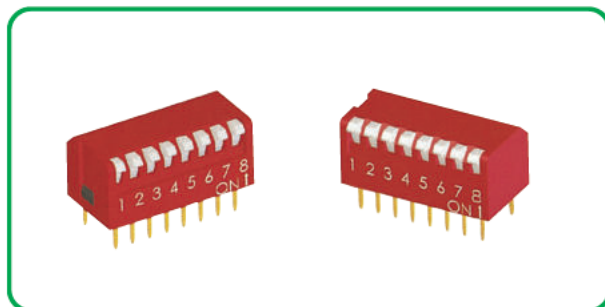
Items		Standard	Package	
Environmental	Operation Temperature Range	-20℃ to +70℃	DS(R)-01:120pcs/tube	DS(R)-01-T:113pcs/tube
	Storage Temperature Range	-40℃ to +85℃	DS(R)-02:72pcs/tube	DS(R)-02-T:70pcs/tube
Electrical performance	Electrical Life	2,000 operations	DS(R)-03:51pcs/tube	DS(R)-03-T:50pcs/tube
	Non-Switching Rating	100mA,50VDC	DS(R)-04:40pcs/tube	DS(R)-04-T:39pcs/tube
	Switching Rating	25mA,24VDC	DS(R)-05:32pcs/tube	DS(R)-05-T:32pcs/tube
Mechanical performance	Operating force	1,000gf max.	DS(R)-06:27pcs/tube	DS(R)-06-T:27pcs/tube
	Stroke	2.0mm	DS(R)-07:24pcs/tube	DS(R)-07-T:24pcs/tube
			DS(R)-08:21pcs/tube	DS(R)-08-T:21pcs/tube
			DS(R)-09:19pcs/tube	DS(R)-09-T:19pcs/tube
			DS(R)-10:17pcs/tube	DS(R)-10-T:17pcs/tube
			DS(R)-12:14pcs/tube	DS(R)-12-T:14pcs/tube

Diagram

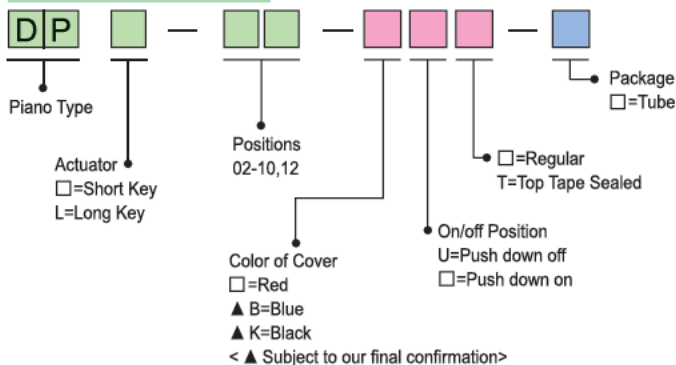
No.	Dimensions	Circuit Diagram																																																			
		Pad Layout																																																			
1	● DS	<table><tr><td>DS-12 DSR-12</td><td>12</td><td>31.84[1.254]</td><td>27.94[1.100]</td></tr><tr><td>DS-10 DSR-10</td><td>10</td><td>26.76[1.054]</td><td>22.86[.900]</td></tr><tr><td>DS-09 DSR-09</td><td>9</td><td>24.22[.954]</td><td>20.32[.800]</td></tr><tr><td>DS-08 DSR-08</td><td>8</td><td>21.68[.854]</td><td>17.78[.700]</td></tr><tr><td>DS-07 DSR-07</td><td>7</td><td>19.14[.754]</td><td>15.24[.600]</td></tr><tr><td>DS-06 DSR-06</td><td>6</td><td>16.60[.654]</td><td>12.70[.500]</td></tr><tr><td>DS-05 DSR-05</td><td>5</td><td>14.06[.554]</td><td>10.16[.400]</td></tr><tr><td>DS-04 DSR-04</td><td>4</td><td>11.52[.454]</td><td>7.62[.300]</td></tr><tr><td>DS-03 DSR-03</td><td>3</td><td>8.98[.354]</td><td>5.08[.200]</td></tr><tr><td>DS-02 DSR-02</td><td>2</td><td>6.44[.254]</td><td>2.54[.100]</td></tr><tr><td>DS-01 DSR-01</td><td>1</td><td>3.90[.153]</td><td>---</td></tr><tr><td>PROD.NO.</td><td>NO.OF POS.</td><td>DIM.A</td><td>DIM.B</td></tr></table>				DS-12 DSR-12	12	31.84[1.254]	27.94[1.100]	DS-10 DSR-10	10	26.76[1.054]	22.86[.900]	DS-09 DSR-09	9	24.22[.954]	20.32[.800]	DS-08 DSR-08	8	21.68[.854]	17.78[.700]	DS-07 DSR-07	7	19.14[.754]	15.24[.600]	DS-06 DSR-06	6	16.60[.654]	12.70[.500]	DS-05 DSR-05	5	14.06[.554]	10.16[.400]	DS-04 DSR-04	4	11.52[.454]	7.62[.300]	DS-03 DSR-03	3	8.98[.354]	5.08[.200]	DS-02 DSR-02	2	6.44[.254]	2.54[.100]	DS-01 DSR-01	1	3.90[.153]	---	PROD.NO.	NO.OF POS.	DIM.A	DIM.B
	DS-12 DSR-12	12	31.84[1.254]	27.94[1.100]																																																	
DS-10 DSR-10	10	26.76[1.054]	22.86[.900]																																																		
DS-09 DSR-09	9	24.22[.954]	20.32[.800]																																																		
DS-08 DSR-08	8	21.68[.854]	17.78[.700]																																																		
DS-07 DSR-07	7	19.14[.754]	15.24[.600]																																																		
DS-06 DSR-06	6	16.60[.654]	12.70[.500]																																																		
DS-05 DSR-05	5	14.06[.554]	10.16[.400]																																																		
DS-04 DSR-04	4	11.52[.454]	7.62[.300]																																																		
DS-03 DSR-03	3	8.98[.354]	5.08[.200]																																																		
DS-02 DSR-02	2	6.44[.254]	2.54[.100]																																																		
DS-01 DSR-01	1	3.90[.153]	---																																																		
PROD.NO.	NO.OF POS.	DIM.A	DIM.B																																																		
		SCHEMATIC(TYP.) (2,3,4,5,6,7,8,9,10,12, POS AVAIL)																																																			
		 P.C.B. Layout																																																			

DIP SERIES

Piano Type Dip Switch



HOW TO ORDER



Specification

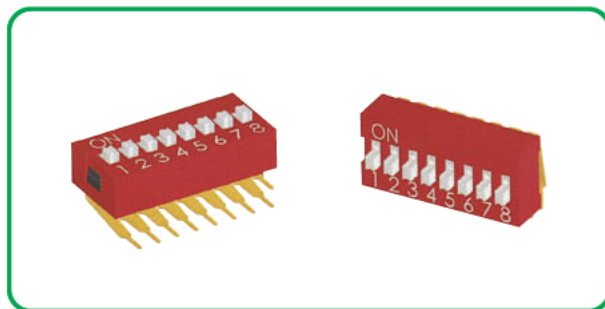
Items		Standard	Package	
Environmental	Operation Temperature Range	-20℃ to +70℃	DP(L)-02:70pcs/tube	DP(L)-02-T:75pcs/tube
	Storage Temperature Range	-40℃ to +85℃	DP(L)-03:50pcs/tube	DP(L)-03-T:49pcs/tube
Electrical performance	Electrical Life	2,000 operations	DP(L)-04:39pcs/tube	DP(L)-04-T:39pcs/tube
	Non-Switching Rating	100mA, 50VDC	DP(L)-05:32pcs/tube	DP(L)-05-T:32pcs/tube
	Switching Rating	25mA, 24VDC	DP(L)-06:27pcs/tube	DP(L)-06-T:27pcs/tube
Mechanical performance	Operating force	400gf max.	DP(L)-07:24pcs/tube	DP(L)-07-T:24pcs/tube
	Stroke	2.0mm	DP(L)-08:21pcs/tube	DP(L)-08-T:21pcs/tube
			DP(L)-09:19pcs/tube	DP(L)-09-T:19pcs/tube
			DP(L)-10:17pcs/tube	DP(L)-10-T:17pcs/tube
			DP(L)-12:14pcs/tube	DP(L)-12-T:14pcs/tube

Diagram

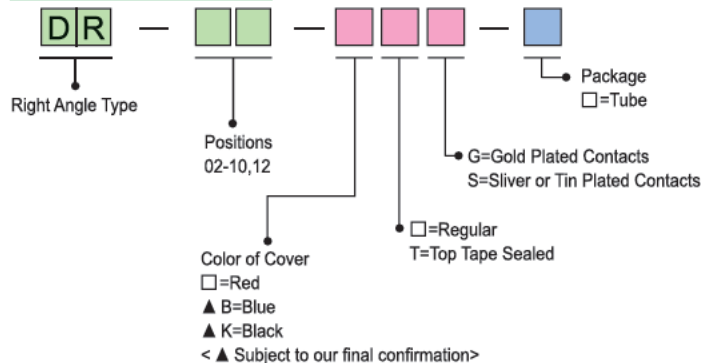
No.	Dimensions	Circuit Diagram Pad Layout																																								
1	<p>● DP</p> <p>DP Series</p> <p>DPL Series</p>	<table><tr><td>DP-12 DPL-12</td><td>12</td><td>31.84[1.254]</td><td>27.94[1.100]</td></tr><tr><td>DP-10 DPL-10</td><td>10</td><td>26.76[1.054]</td><td>22.86[.900]</td></tr><tr><td>DP-09 DPL-09</td><td>9</td><td>24.22[.954]</td><td>20.32[.800]</td></tr><tr><td>DP-08 DPL-08</td><td>8</td><td>21.68[.854]</td><td>17.78[.700]</td></tr><tr><td>DP-07 DPL-07</td><td>7</td><td>19.14[.754]</td><td>15.24[.600]</td></tr><tr><td>DP-06 DPL-06</td><td>6</td><td>16.60[.654]</td><td>12.70[.500]</td></tr><tr><td>DP-05 DPL-05</td><td>5</td><td>14.06[.554]</td><td>10.16[.400]</td></tr><tr><td>DP-04 DPL-04</td><td>4</td><td>11.52[.454]</td><td>7.62[.300]</td></tr><tr><td>DP-03 DPL-03</td><td>3</td><td>8.98[.354]</td><td>5.08[.200]</td></tr><tr><td>DP-02 DPL-02</td><td>2</td><td>6.44[.261]</td><td>2.54[.100]</td></tr></table> <p>PROD.NO. NO.OF POS. DIM.A DIM.B</p> <p>SCHEMATIC(TYP.)</p> <p>(2,3,4,5,6,7,8,9,10,12, POS AVAIL)</p> <p>P.C.B. Layout</p> <p>B=2.54x(P-1) [B=100x(P-1)]</p> <p>7.62 [300]</p> <p>Ø0.97 [Ø038]</p>	DP-12 DPL-12	12	31.84[1.254]	27.94[1.100]	DP-10 DPL-10	10	26.76[1.054]	22.86[.900]	DP-09 DPL-09	9	24.22[.954]	20.32[.800]	DP-08 DPL-08	8	21.68[.854]	17.78[.700]	DP-07 DPL-07	7	19.14[.754]	15.24[.600]	DP-06 DPL-06	6	16.60[.654]	12.70[.500]	DP-05 DPL-05	5	14.06[.554]	10.16[.400]	DP-04 DPL-04	4	11.52[.454]	7.62[.300]	DP-03 DPL-03	3	8.98[.354]	5.08[.200]	DP-02 DPL-02	2	6.44[.261]	2.54[.100]
DP-12 DPL-12	12	31.84[1.254]	27.94[1.100]																																							
DP-10 DPL-10	10	26.76[1.054]	22.86[.900]																																							
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DP-03 DPL-03	3	8.98[.354]	5.08[.200]																																							
DP-02 DPL-02	2	6.44[.261]	2.54[.100]																																							

DIP SERIES

Right Angle Type Dip Switch



HOW TO ORDER



Specification

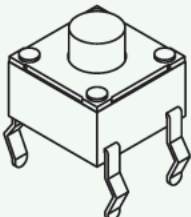
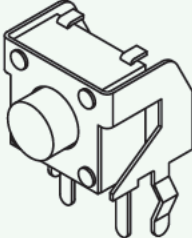
Items		Standard	Package	
Environmental	Operation Temperature Range	-20℃ to +70℃	DR-02:73pcs/tube	DA-02-T:70pcs/tube
	Storage Temperature Range	-40℃ to +85℃	DR-03:52pcs/tube	DA-03-T:50pcs/tube
Electrical performance	Electrical Life	2,000 operations	DR-04:40pcs/tube	DA-04-T:39pcs/tube
	Non-Switching Rating	100mA,50VDC	DR-05:33pcs/tube	DA-05-T:32pcs/tube
	Switching Rating	25mA,24VDC	DR-06:28pcs/tube	DA-06-T:28pcs/tube
Mechanical performance	Operating force	1,000gf max.	DR-07:24pcs/tube	DA-07-T:24pcs/tube
	Stroke	2.0mm	DR-08:21pcs/tube	DA-08-T:21pcs/tube
			DR-09:19pcs/tube	DA-09-T:19pcs/tube
			DR-10:17pcs/tube	DA-10-T:17pcs/tube
			DR-12:14pcs/tube	DA-12-T:14pcs/tube

Diagram

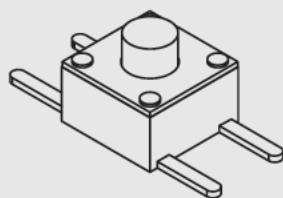
No.	Dimensions	Circuit Diagram
		Pad Layout
1	● DR	

TERMINAL TYPE

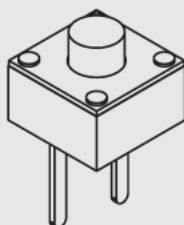
■ When order tact switch, please refer to the following illustration for your terminal choice

Vertical	Horizontal
	

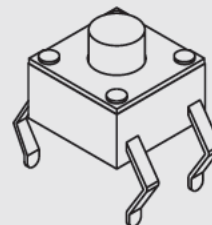
■ Terminal Type



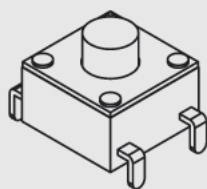
F: Flat Terminal



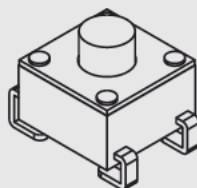
T: Tapping



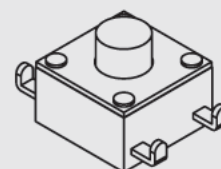
P: Through Hole Terminals



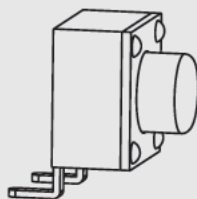
J: J type



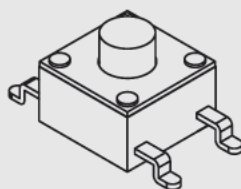
J: J type



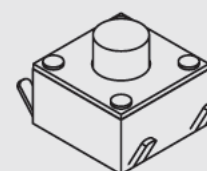
R: Reverse Lead



M: S.M.T



M: S.M.T



U:U type

Caution

1. Note that terminals might suffer deformation of the switch and the defects in electrical performance, if the load is applied to the terminals during soldering.

2. If you use a through-hole PC board or a PC board thinner or thicker than the recommendation, there may be greater heat stress. Verify the soldering conditions thoroughly before use.

3. When soldering twice, wait until the first soldered portion cools to normal temperature. Continuous heating will deform the external portions, loosen or dislodge terminals, or may deteriorate their electrical characteristics.

4. Verify soldering conditions under actual mass production conditions.

5. This product is designed and manufactured assuming that it is to be used with the resistance for direct current. If you use other kinds of resistance [inductive (L) or capacitive (C)], consult with us beforehand.

6. For the sizes of holes and patterns on a PC board for mounting a switch, refer to the recommended dimensions in the outline drawings.

7. This switch is designed for manually operated units. Do not use this switch in a mechanical detection unit. For detection purposes, please use our detection switch.

8. The switch will break if you apply a greater stress than that specified. Take great care not to let the switch be subject to greater stress than specified.

9. Do not press the side of the stem.

10. Be sure to push the center position of a flat stem switch. Extreme care is required for a hinge structure type because the stem press position moves when it is pressed.

11. If you put the board with the switch in the oven so as to harden adhesive for other parts, consult with us.

12. When corrosive gas is generated by a peripheral material of a product using the TACT switch, malfunctions such as imperfect contacts can occur. Check this point thoroughly in advance.

13. The contact resistance of a rubber contact type changes depending on pressure load. Confirm that it functions sufficiently when you use this TACT switch with a voltage divider circuit.

14. Be aware of dust intrusion into an unsealed-type TACT switch.

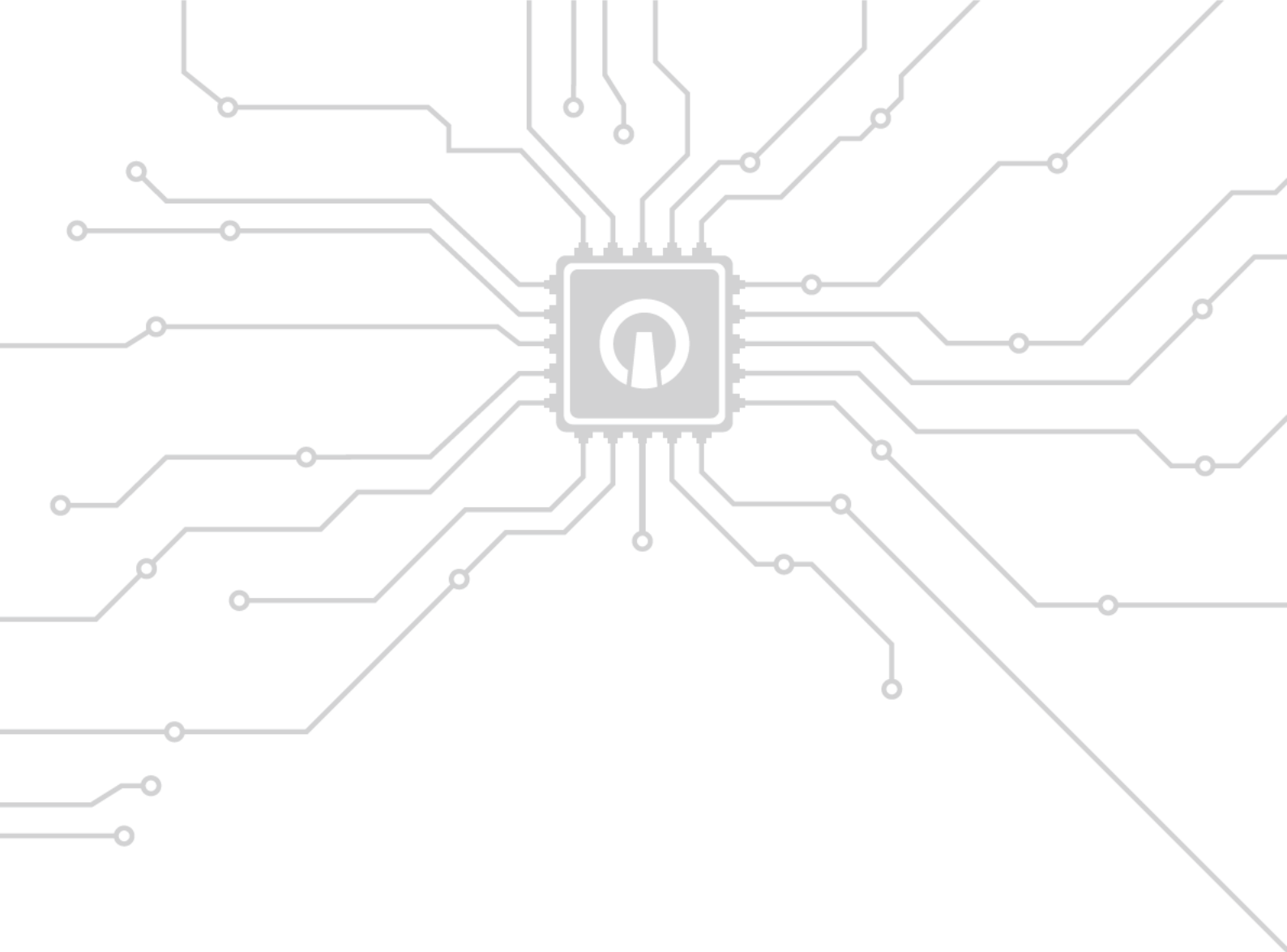
15. Storage method

(1) If you do not use the product immediately, store it just as delivered in the following environment: with neither direct sunshine nor corrosive gas and in normal temperatures. However, it is recommended that you should use it as soon as possible or within six months from the date of delivery at the most.

(2) After you break the seal, you should put the remainder in a plastic bag to shut out outside air, and store it in the same environment mentioned above. You should use it up as soon as possible.

(3) Do not stack too many switches for safety.

(4) Store the key switches with the switch in the released position.



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