





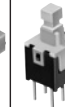








Index for Function

Series		SPPJ6	SPPJ3	SPPJ2	SPUJ	SPUP	SPUN	SPPH2	SPPH4	SPPH1	SPEA	SPEC	SPED1	SPED2
Photo														
Power														
Push														
Slide	Travel (mm)	1.5	2.5	2.5	2	1.5 2	2.5	1	2.2	1.5	1.2	2.5	—	—
Rotary	Outline specifications	2.5	3.5		3	2.5 3	3.5	1.5	3	2.5	1.7	3.4	4.5	
Encoders	Number of poles	2	1 2	2	2 4			2			2 4	2	1	
Jog Shuttle	Dimensions (mm)	W	9	6.6	7.2	7.5	7.5	10	6.5	8.5	10	12		14
Telephone-hook		D	9	12		15.2 22.7		24 36	6	6.5	10		16.8	
		H	4.5	8.3	9.6	8.8	10.3	13	6.5	8.5		12.5	26.7	
Detector	Soldering	Manual soldering	●	●	●	●	●	●	●	●	●	●	—	● ※4
Vibration/Tilt Sensors		Dip soldering	●	●	●	●	●	●	●	●	●	●	—	● ※4
Dual-in-line Package Type	Lead free※1	●	●	●	●	●	●	●	●	●	●	●	●	●
Multi Control Devices	Minimum packing unit※2※3 (pcs.)	100												
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Notes

1. ※1. ● mark : This product series do not contain any lead in all materials and parts.
2. ※2. Place your purchase order in N minimum package units (N: integer).
3. ※3. Ask us for the export packaging unit.
4. ※4. Applicable to SPED220200 (PC board type) only.

Horizontal Type
Vertical Type

Products Specifications

Series		Item																			
		SPPJ6	SPPJ2	SPPJ3	SPUJ SPUP	SPUN	SPUN (medium current)	SPPH2	SPPH4	SPPH1	SPEA	SPEC	SPED1	SPED2							
Power	Operating temperature range											-10°C to +60°C	-40°C to +85°C								
Push	Rating (max.) (Resistive load)											0.2A 12V DC	0.2A 30V DC	0.1A 30V DC	1A 25V DC	0.1A 12V DC	0.1A 30V DC			1A 14.5V DC	
Slide Rotary	Electrical performance	Initial contact resistance											20mΩ max.			30mΩ max.	100mΩ max.	20mΩ max.	30mΩ max.	1Ω max.	
		Insulation resistance											100MΩ min. 500V DC							10MΩ min. 100V DC	
		Voltage proof											500V AC for 1 min.							100V AC for 1 min.	
Encoders	Robustness of terminal											5N for 1 min.					3N for 1 min.	—			
Jog Shuttle	Robustness of actuator	Operating direction											50N	30N	50N	30N	50N				
Telephone -hook		Pulling direction											—		50N	—	10N	—	50N	—	
Detector	Mechanical performance	Vibration											10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively								
Vibration/ Tilt Sensors		Solderability											230±5°C、3±0.5s							—	
Dual-in-line Package Type		Resistance to soldering heat	Manual soldering											350±10°C 3 ⁺ ₀ ⁺ s		300±10°C 3 ⁺ ₀ ⁺ s	350±10°C 3 ⁺ ₀ ⁺ s	350°C max. 3s max.	350±10°C 3 ⁺ ₀ ⁺ s		
Multi Control Devices	Dip soldering											260±5°C 5±1s	260±5°C 10±1s	260±5°C 5±1s	260±5°C 10±1s	260±5°C 5±1s	260±5°C 10±1s	260±5°C 5±1s	260°C max. 5s max.	—	
TACT	Durability	Operating life without load											10,000 cycles 40mΩ max.		30,000 cycles 40mΩ max.	10,000 cycles 40mΩ max.	10,000 cycles 50mΩ max.	10,000 cycles 100mΩ max.	10,000 cycles 40mΩ max.	10,000 cycles 50mΩ max.	30,000 cycles 1Ω max.
		Operating life with load Load : As rating											10,000 cycles 40mΩ max.		5,000 cycles 40mΩ max.	10,000 cycles 50mΩ max.	10,000 cycles 100mΩ max.	10,000 cycles 40mΩ max.	10,000 cycles 50mΩ max.	10,000 cycles 1Ω max.	
Horizontal Type	Environmental performance	Cold											-20±2°C for 96h							-40±2°C for 96h	
Vertical Type		Dry heat											85±2°C for 96h								
		Damp heat											40±2°C, 90 to 95%RH for 96h								