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Car Use

RoHS
compliant

■ Typical Specifications

Custom-Products



Items		Specifications
Rating (max.) (min.) (Resistive load)		0.1A 12V DC/50μA 5V DC
Contact resistance (Initial/After operating life)		500mΩ max./1Ω max.
Operating force		2N max.
Operating life	Without load	300,000cycles
	With load	300,000cycles(0.1A 12V DC)

Poles	Positions	Terminal type	Minimum order unit(pcs)	Product No.
1	2	Female connector type	7,500	SPVQ510101

[illegible]

Technical drawing of a mechanical part, showing front and side views with dimensions.

Front View (Top):

- Overall width: 10.6
- Overall height: 3
- Distance between centers of holes: 5.3
- Distance from left edge to center of first hole: 3.6
- Distance from center of first hole to center of second hole: 3.6
- Left hole diameter: $\phi 2$
- Right hole diameter: $\phi 2$
- Left hole position: 0.2 from top edge, 0.635 from bottom edge

Side View (Bottom):

- Overall height: 2.5.5
- Overall width: 3.1
- Top surface profile: 2C0.3 (left), 6C0.3 (right)
- Internal features: 3.4.7 (width of a central feature)

The diagram shows a graph with three components. The first component is a path of length 2, consisting of three nodes connected in a line. The second component is a single isolated node. The third component is a path of length 1, consisting of two nodes connected by an edge. The nodes are labeled 1, 2, and 3 in circles.

Please place purchase orders per minimum order unit(integer).

List of Varieties (General-purpose Type / Water-proof Type / Telephone-hook Type)

Series		General-purpose Type		Water-proof Type					Telephone-hook Type	
		SSCW	SPVQ5	SPVQ1	SPVQ3	SPVQ4	SPVQ6	SSCN	SPPY5	
Photo										
Operation type				 	 					
Operating temperature range		-40 to +85							-10 to +60	
Rating (max.) (Resistive load)		0.1A 20V DC	0.1A 12V DC						0.1mA 3V DC min. 50mA 48V DC max.	
Rating (min.) (Resistive load)		100μA 3V DC	50μA 3V DC	50μA 3V DC or 1mA 5V DC	50μA 3V DC	50μA 5V DC	100μA 3V DC	0.1mA 3V DC		
Electrical performance	Initial contact resistance	500mΩ max.							100mΩ max.	
	Insulation resistance	100MΩ min. 250V DC	100MΩ min. 500V DC							
	Voltage proof	250V AC for 1 minute	500V AC for 1 minute							
Mechanical performance	Terminal strength			3N for 1 minute					5N for 1 minute	
	Actuator strength	20N						10N	5N	
Durability	Operating life without Load	100,000cycles 1Ω max.	300,000cycles 1Ω max.	300,000cycles or 1,200,000cycles 1Ω max.	300,000cycles 1Ω max.		100,000cycles 1Ω max.	300,000cycles 1Ω max.		
	Operating life with Load	(0.1mA 12V DC) 100,000cycles 1Ω max.	(0.1A 12V DC) 300,000cycles 1Ω max.	(0.1A 12V DC) 300,000cycles or 1,200,000 1Ω max.	(0.1A 12V DC) 300,000cycles 1Ω max.		(0.1A 12V DC) 100,000cycles 1Ω max.	(1mA 3V DC) 300,000cycles 1Ω max. or (50mA 60V DC) 100,000cycles 1Ω max.		
Environmental performance	Cold	-40 ± 2 for 500h							-20 ± 2 for 96h	
	Dry heat	85 ± 2 for 500h							85 ± 2 for 96h	
	Damp heat	60 ± 2 , 90 to 95%RH for 500h							40 ± 2 , 90 to 95%RH for 96h	
Dimensions (mm)		W	13.1	13.8	13.3	13	14.7	13.3	13	14.4
		D	11.35		5.8		5.4	5.3	25	28.6
		H	5.3	5.8	8	8.35	7.6	7	5	7.15
Soldering	Manual soldering			300 ± 10 , 3 ⁺¹ ₀ s					350 ± 5 , 3s max.	
	Dip soldering			260 ± 5 , 5 ± 1s						
	Reflow soldering								Please see P.79	
Number of poles		1							2	
Operation force		1N max.	2N max.	2N max. 5.9N max.	1 ± 0.5N	1 ± 0.3N	1 ± 0.5N	2N max.	0.8N max.	
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Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products

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