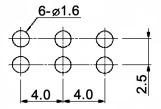


HOLE LAYOUT ⊕ 0.05



Material:

Base: phenolic resin, natural Frame: SPCC, tin plated

Slider: PBT, black

Terminal: brass strip, silver plated Contact plate: brass strip, silver plated

Spring: SWC, temper RoHS compliant

CIRCUIT DIAGRAM



C: COMMON PIN BOTTOM VIEW

Blatt 1/3

Maß	stab				Datum	Name				
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SPECIFICATION

- 1. General
 - 1) Operating temperature range $\,$ -10 to 60 $\,$ $^{\circ}$ C .
 - 2) Standard test conditions shall be 5 to 35 °C in temperature and 45 to 85 % in humidity.
- 2. Rating DC 30V 0.3A
- 3. Change over timing Non-shorting
- 4. Electrical performance

ŀ	Item	Conditions	Specifications		
1	Contact Resistance	a) 1 KHz +/- 200 Hz (20mA)	30 mohm or less.		
		b) DC 5V 1A by voltage drop method.			
2	Insulation Resistance	DC 500 V 1 minute	between terminals	100 Mohm or more.	
			terminal & frame	100 Mohm or more.	
3	Withstand Voltage	AC 500 V 1 min. (50/60Hz 2mA)	between terminals	No dielectric breakdown.	
Ш	_	AC 500 V 1 min. (50/60Hz 2mA)	terminal & frame	1	

5. Mechanical performance

Item	Conditions	Specifications		
1 Terminal Strength	A static load of 500 gf shall be applied to the tip of the terminals for 15 seconds in any direction. 1 cycle shall be made per 1 terminal.	Electrical performance shall be satisfied. Without damage of excessive looseness of terminals.		
2 Actuator Strength	A static load of 3.0 kgf shall be applied for 15 seconds in a direction reverse to cause actuation of the switch.	Clause 5.4 and electrical performance shall be satisfied. Without excessive looseness of bending to the actuator and stopper.		
3 Displacement of actuator	A static load of 100 gf shall be applied at the point 1 mm from the tip of the actuator and than displacement shall be measured.	1.0 mm p-p or less.		
4 Operating force	Measure at the tip of actuator.	250gf ±100gf		

6. Endurance performance

	Item	Conditions	Specifications	
1	Solderability	Solder temperature 230 ± 5 ℃		More than 75 % of the dipping
	,	Dipping time 3 ± 0.5 second	covered by solder.	
2	Soldering heat resistance	Solder bath method Solder temperature: 260 ± 5 °C	Without deformation of frame or excessive losseness of terminals.	
		Dipping time: 5 ± 1.0 second		Electrical performance shall be satisfied.
		Thickness of PCB: 1.6 mm		
1	:	Immersion depth: Up to the surface of the t	poard	
-		Solder iron method		
		Bit temperature: 350 ± 10 ℃		
		Application time: 3 ± 1.0 second		
3	Heat Test	The switch shall be stored at a temperature	Contact Resistance	Less than 100 mohm.
		of 70 ± 2 °C for 48 hours.	Insulation resistance	4.2 shall be satisfied
Ì		Then the switch shall be maintained standard	Operating force	5.4 shall be satisfied
		atmospheric condition for 1 hour, after which	Terminal strength	5.1 shall be satisfied
		measurement shall be made within 1 hour.	Appearance	No deformation or crack in molded part.
4	Cold Test	The switch shall be stored at a temperature	Contact Resistance	Less than 100 mohm.
		of -25 \pm 3 $^{\circ}$ C for 48 hours.	Insulation resistance	4.2 shall be satisfied
İ		Then the switch shall be maintained standard	Operating force	5.4 shall be satisfied
		atmospheric condition for 1 hour, after which	Appearance	No deformation or crack in molded part.
		measurement shall be made within 1 hour.		
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Maßstab Oberfläche					Datum Name 05/07 dr			
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	Item	Conditions				Specifications
5	Humidity Test	The switch shall be stored at a temper	rature	Contact	Resistance	Less than 100 mohm.
		of 40 ± 2 °C and a humidity of		Insulatio	n resistance	More than 10 Mohm after 500 V DC
		90 to 95 % for 96 hours.				is applied for 1 minute.
		Then the switch shall be maintained		Withstar	nd voltage	Withstand AC 250 V for 1 minute.
		standard atmospheric condition for 1 h		Appeara	nce	No deformation or crack in molded part
		after which measurement shall be ma- within 1 hour.	de			or excessive rust or discoloration.
				L		
6	Change of temperature	The switch shall be subjected to 5	-1		Resistance	Less than 100 mohm.
		successive change of temperature cy each as shown in table below.	cies,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	n resistance	4.2 shall be satisfied
		each as shown in table below.			nd voltage	4.3 shall be satisfied
				Operation		5.4 shall be satisfied
				Appeara	nce	No deformation or crack in molded part.
		Temperature	Duratio	on	1	
		1 -10 +/- 3°C	30 min.		1	
		2 Standard atmospheric condition	10-15	min.		
		3 70 +/- 2°C	30 mir),	-	
		4 Standard atmospheric condition	min.			
L			<u>'</u>	1 -	J	5.1 shall be satisfied
7	Vibration	Only endurance conditioning by a freq sweep shall be made. The entire frequency		Terminal strength Actuator strength		5.1 shall be satisfied
		range, from 10 to 55 Hz and return to		!		
		be transversed in 1 minute.		Operating force		5.4 shall be satisfied
		Amplitude (total excursion): 1.5 mm		Electrical performance shall be satisfied.		
		This motion shall be applied for a period				
		of 3 mutually perpendicular axis (a total	2011			
Ŕ	Shock	Peak acceleration: 735 m/s ²		Termina	l strength	5.1 shall be satisfied
ľ	Griook	Duration of pulse: 6 msec.			strength	5.2 shall be satisfied
		Three successive shock shall be appli	ed	Operatin		5.4 shall be satisfied
		in both directions of mutually perpendi			3	Electrical performance shall be satisfied.
		axis (a total of 18 shocks).				
9	Life test	(Endurance without load)		Contact resistance Insulation resistance		Less than 100 mohm.
ľ	2.70 1001	A switch shall be subject to 5,000				More than 10 Mohm after 500 V DC
		cycles at a speed of 15 to 20 cy	•			is applied for 1 minute.
		per min, without load.		Withstand voltage		Withstand AC 250 V for 1 minute.
				Operatin		Relative to the previously specified
					•	value, ±30%

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