Vertical Slide Switch

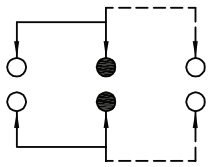
multicomp PRO

RoHS Compliant

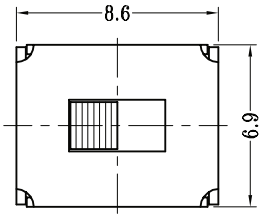
Specification

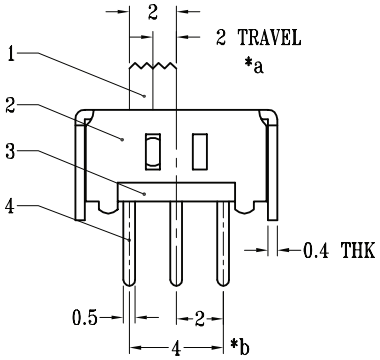
Rating : 0.3A 50V DC
Function : 2P2T
Timing : Shorting

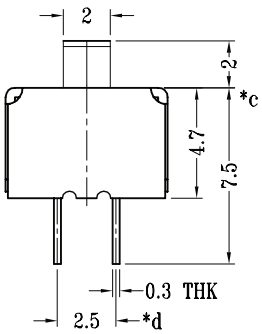
Parts	Materials	Quantity	Finish
Frame	Steel Strip	1	Ni Plated
Knob	PA66	1	Black
Base	Phenolic Resin	1	Natural
Terminal	Brass Strip	6	Ag Plated
Contact Clip	PBS Strip	2	Ag Plated
Spring Plate	PBS Strip	1	Natural

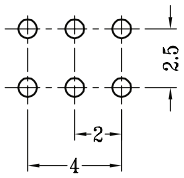


SCHEMATIC (NON-SHORTING)









P.C.B LAYOUT
BOTTOM VIEW

Dimensions : Millimetres

Tolerance: Unless Specified within 1.5mm ±0.1mm over 1.5mm ±0.2mm

Electrical Characteristics

Item	Test Conditions	Performance
Contact Resistance	Measured at small current (100mA or less)	100m Ω max.
Insulation Resistance	Apply a voltage of 500V DC for 1 min. to following portions after which measurement shall be made. (1) Between body and terminal. (2) Between terminals.	100M Ω Min.
Dielectric Strength	AC 500V (50-60Hz) for 1 min. trip Current: 0.5mA (1) Between Terminals. (2) Between Individual terminal and frame.	Without Damage to parts Arcing or Breakdown etc

Mechanical Characteristics

Item	Test Conditions	Performance
Operating Force	Measurement shall be made at the nearest point of the component or at the point 3mm from the tip of the actuator (Knob).	250gf ±100gf
Terminal Strength	A Static load of (300gf) shall be applied to the terminal for 15 sec, in any direction.	Mechanical and Electrical characteristics shall be satisfied without looseness of actuator.
Displacement of actuator (Knob)	A static load of 10N (1Kgf) shall be applied to the top of the actuator (Knob) and then displacement shall be measured to the direction of the arrow.	The lever shall have no serious deformation and function is normally.

Endurance Characteristics

Item	Test Conditions	Performance
Life test	Endurance without Load: A switch shall be subject to 10,000 cycles at a speed of 15 to 18 cycles per Min. without loading	(1) Contact Resistance 200mΩ Max. (2) Insulation Resistance 50MΩ Min. (3) Withstand voltage 500V AC 1 minute. (4) Operating Force ±30% initial value. (5) Without damage to parts arcing or breakdown etc.
Solderability test	The top of the terminals shall be dipped 2mm in the solder bath of 230 ±5°C for 3 ±0.5 seconds.	The area of soldering should be over 75%

Endurance Characteristics

Item	Test Conditions	Performance
Resistance E to Soldering heat test	Solder Bath method: Solder temperature 260 ±5°C Immersion time 3 ±0.5 sec. Immersion Depth up to the surface of the board 1.6mm dimensions of component holes in the printed wiring board shall being accordance with those specified in these specification. Soldering iron method: Bit temperature 350 ±10°C Application time of soldering iron 3 ±0.5 sec. However excessive pressure shall not be applied to the terminal.	Without Deformation of case or excessive looseness of terminals electrical characteristics shall be satisfied.
Cold Test	The Switch shall be stored at a temperature of -25 ±3°C for 48 hours. Then the switch shall be maintained at standard atmospheric conditions for 1 hour after which measurement shall be made.	Three shall be no deformation or cracks in molded part,
Heat Test	The Switch shall be stored at a temperature of 70 ±2°C for 48 hours. Then the switch shall be maintained at standard atmospheric conditions for 1 hour after which measurement shall be made.	
Humidity Test	The Switch shall be stored at a temperature of 40 ±2°C and a humidity of 90% to 95% for 96 hours. Then the switch shall be maintained at standard atmospheric conditions for 1 hour after which measurement shall be made.	
Standard Atmosphere Conditions	Unless Otherwise specified. the standard range of atmosphere conditions for making measurements and tests are as follows. (1) Ambient temperature: 5°C to 35°C (2) Relative Humidity: 45% to 85% (3) AIT Pressure: 86Kpa to 106Kpa	
Practical temperature range	-16°C to +60°C.	

Part Number Table

Description	Part Number
Slide Switch, DPDT, 50V DC, 0.3A, Vertical Through hole	MP004696