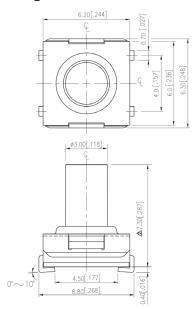
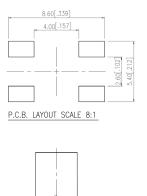
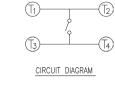


RoHS Compliant

Diagram



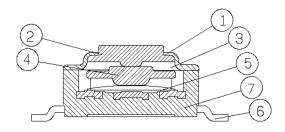




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Dimensions: Millimetres (Inches)

Item	Description	Q'ty	Materials	Treatment
1	Cover		Stainless Steel Dtsgmw= Nickel Silver	None
2	Stem		High – Temp Thermoplastic Nylon UL 94V-0	
3	Adhesive Tape		Kapton	None
4	Metal Stem	1	Brass	Nickel Plated
5	Contact	'	Stainless Steel	With Silver Cladding
6	Terminal		Brass	With Silver Plating
7	Base		High – Temp Thermoplastic Nylon UL 94V-0	Molded Black



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1. Style

This specification describes "Tactile Switch Washable Type", mainly used as signal switch of electric devices, with the general requirements of mechanical and electrical characteristic.

- 1.1 Operating Temperature Range: -25°C+70°C
- 1.2 Storage Temperature Range: -40°C+80°C
- 1.3 The shelf life of product is within 6 months.
- 2. Current Range: 50mA, 12V DC
- 3. Type of Actuation: Tactile feedback4. Test Sequence:

Item	Description	Test Conditions Requirements						
Appearance								
1	Visual Examination	By visual examination check without any out pressure & testing.	There shall be no defects that affect the serviceability of the product.					
Electr	ric Performanc	e						
2	Contact Resistance	Applying a static load 1.5~2 times the operating force to the center made with a 1 kHz small current contact resistance meter.	100mΩ Max.					
3	Insulation Resistance	Measurements shall be made following application of 500V DC potential across terminals and cover for 1 minute ±5 seconds	100MΩ Min.					
4	Dielectric Withstanding Voltage	250V AC(50Hz or 60Hz) shall be applied across terminals and cover for 1 minute	There shall be no breakdown or flashover.					
5	Capacitance	1 MHz ±10 kHz	5 pF max.					
6	Bounce	3 to 4 operations at a rate of 1 cycles per second Switch Synchroscope 5V DC 5ΚΩ	5 m seconds Max.					
Mech	Mechanical Perfprmance							
7	Operating Force	Applied in the direction of operation.	OF	65, 67, 69Y 520±130g [5.1±.127 N]	65, 67, 677, 69T 360±90g [3.528±.8 82N]	66N, 677 N, 68S 160±50g [1.568±.4 9N]	64, 65, 69, 67R 260±70g [2.548±.6 86N	64, 65, 69, 67N 180±50g [1.764±.4 9N]





8	Stroke	Placing the switch such that the direction of switch operation is vertical and then gradually increasing the load applied to the stem, the stroke distance for the stem to come to a stop shall be measured.	1) 0.25+0.2/-0.1mm~66N, 677N, 677T, 68S 2) 0.45±0.2mm~(64, 69, 67, 65R (N) (65T) (65, 69, 67Y) 3) 0.6±0.2mm~69, 67T
9	Stop Strength	Placing the switch such that the direction of switch operation is vertical, a static load of 3 kgf(29.4N) shall be applied in the direction of stem 7 operation for a period of 15 seconds	1. As shown in item 4~7 2. Contact Resistance: 200mΩ Max 3.Insulation Resistance: 10MΩ Min
10	Solder Heat Resistance	(Through Hole Type (Soldering Temperature: 260 ±5°C (Duration of Solder Immersion: 5 ± 1 seconds. (Frequency of Soldering Process 2 times max. (PCB is 1.6mm in thickness) SMT Type ~ Series(4/4)	Shall be free from pronounced backlash and falling-off or breakage terminals As shown in item 4, 5 Contact Resistance: 200mΩ Max Insulation Resistance:10MΩ Min
11	Vibration	Shall be vibrated in accordance with Method 201A of MIL-STD-202F 1. Frequency: 10-55-10Hz in 1-min/cycle. 2. Direction: 3 vertical directions including the directions of operation 3. Test time: 2 hours each direction. 4. Swing distance=1.5mm	1. As shown in item 4~7 2. Contact Resistance: 200mΩ Max 3. Insulation Resistance: 10MΩ Min
12	Shock	Shall be shocked in accordance with Method 213B condition A of MIL-STD-202F 1) Acceleration: 50G 2) Action time:11±1m seconds 3) Testing Direction: 6 sides 4) Test Cycle: 3 times in each direction	Ditto
13	Solder ability	1)Through Hole Soldering Temperature: 245±3°C 2) Lead-Free solder: M705E JIS Z 3282 A (Tin 96.5%, Silver 3%, Copper 0.5%) 3)Flux: 5~10 sec 4)Duration of solder Immersion: 5±1 sec	No anti-soldering and the coverage of dipping into solder must more than 66% was requested.
14	Seal (Washable)	The switch is placed at a depth of 5cm in fluorocarbon FC-40 for 1 minute at 50°C	1)Visually monitor the successive bubbling distance within 25mm 2)As show in item 2~5.

Seal Characteristics:

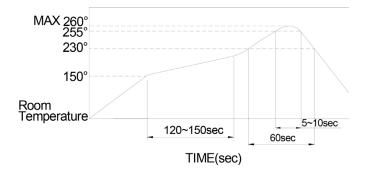
- 1) Do not wash immediately after soldering, do it after returning the switches back toq thermal temperature.
- 2) Do not apply external force to the switch during washing.
- 3) The switch cannot be used where subject to direct contact with water. (except for cleaning processing.)





Durak	Durability					
15	Operating Life	Measurements shall be made following the test forth below: 1) 5mA, 5V DC resistive load 2) Applying a static load the operating force to the center of the stem in the direction of operation 3) Static Load = OF max. 4) Cycle of Operation: 100,000 cycles~66N, 68S, 677T 500,000 cycles~67, 69, 65, 64R, N, T 300,000 cycles~65, 69, 67Y	1) As shown in item 4, 5 2) Operating force:±50% of initial force. 3) Contact Resistance: 10Ω Max 4) Insulation Resistance: 10MΩ Min 5) Bounce: 10 m seconds Max			
16	Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: 1)Temperature: -25±3°C 2)Time: 96 hours	1)As shown in item 4~7 2)Contact Resistance: 200mΩ Max 3)Insulation Resistance: 10MΩ Min			
17	Resistance High Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: 1)Temperature:80±2°C 2)Time:96 hours	Ditto			
18	Resistance Humidity	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: 1) Temperature:40±2°C 2) Relative Humidity:90~95% 3) Time:96 hours	Ditto			

Soldering Conditions







• The condition mentioned above is the temperature on the Cu foil of the PCB surface.

There are cases where board's temperature greatly differs from switch's surface temperature depending on board's material, size, thickness, etc. Care, therefore, should be used not to allow switch's surface temperature to exceed 260°C.

· Manual Soldering

Soldering Temperature Max.350°C
Continuous Soldering Time Max. 5 seconds

Part Number Table

Description	Part Number
Tactile Switch, Through Hole, 6mm × 6mm, J PIN	MPDTSJW-677N-V-T/R

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