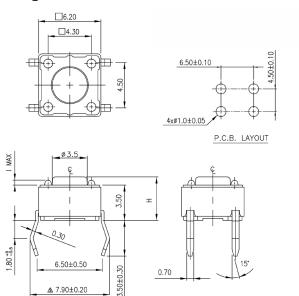
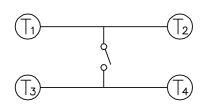


RoHS Compliant

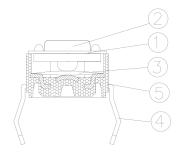
Diagram

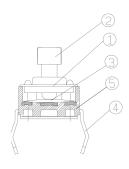




CIRCUIT DIAGRAM

Item	Description	Q'ty	Materials	Treatment
1	Cover		Stainless Steel	None
2	Stem		High – Temp Thermoplastic Nylon UI 94v-0	
3	Contact	1	Phosphor Bronze	With Silver Cladding
4	Terminal		Brass	With Silver Plating
5	Base		High – Temp Thermoplastic Nylon UI 94v-0	Molded Black





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1. Style

This specification describes "TACTILE SWITCH", 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 : -30°C+80°C
- Current Range: 50mA, 12V DC
 Type of Actuation: Tactile feedback
- 4. Test Sequence:

Item	Description	escription 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.					
Electric	Performance							
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	250 V AC(50Hz or 60Hz) shall be applied across terminals and cover for 1 minute	There shall be no breakdown or flashover.					
5	Bounce	3 to 4 operations at a rate of 1 cycles per second Switch Synchroscope 5V DC 5ΚΩ	5 m seconds Max.					
Mechar	Mechanical Performance							
6	Operating Force		OF					
			U	К	N	R	S	Y
			70±30 [.69N±.29N]A	100±50 [.98N±.49N]	160±50 [1.568N±.49N]	260±50 [2.548N±.49N]	320±80 [3.136N±.784N	520±130 [5.096N±1.274N





7	Stroke	Placing the switch such that the direction of switch operation is vertical and then gradually increasing the load applied to the stem, wthe stroke distance for the stem to come to a stop shall be measured.	0.25 +0.2/-0.mmz	
8	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 operation for a period of 15 seconds	1. As shown in item 4~7 2. Contact Resistance: 200mΩ Max 3. Insulation Resistance: 10MΩ Min	
9	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 ~DTSM 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	
10	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	
11	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	1) As shown in item 4~7 2) Contact Resistance: 200mΩ Max 3) Insulation Resistance: 10MΩ Min	
12	Solder ability	Through Hole Soldering 1)Temperature: 245±3°C Lead-Free solder: M705E JIS Z 3282 A (Tin 96.5%, Silver 3%, Copper 0.5%) 2)Flux: 5~10 sec 3)Duration of solder Immersion: 5±1 sec	No anti-soldering and the coverage of dipping into solder must more than 66% was requested.	

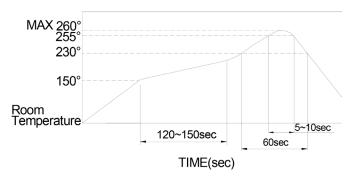


Durabil	Durability						
13	Operating Life	Measurements shall be made following the test forth below: 1)5 mA,5 VDC resistive load 2)Applying a static load the operating force to the center of the stem in the direction of operation: (Through Hole, S.M.T Dome=Phosphor Bronze) 200,000 cycle's Min. For 100,160gf 100,000 cycle's Min. For 260gf 50,000 cycle's Min. For 320,520gf (S.M.T Dome=Stainless Steel) 1,000,000 cycle's Min~100,160gf 500,000 cycle's Min~260gf 300,000 cycle's Min~260gf 300,000 cycle's Min~320, 520gf	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				
vveatne	er-Prooi	Following the test set forth below the					
14	Resistance Low Temperature	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				
15	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	1)As shown in item 4~7 2)Contact Resistance: 200mΩ Max 3)Insulation Resistance: 10MΩ Min				
16	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	1)As shown in item 4~7 2)Contact Resistance: 200mΩ Max 3)Insulation Resistance: 10MΩ Min				





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 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	MPDTS-62K-V		

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