Tactile Switch



RoHS Compliant

Features

- Sharp click feel with a positive tactile feedback. Due to small movement distance (stroke), user experiences distinct sensation when the switch "clicks" into place
- Ultra miniature and light weight structure suitable for high density mounting. Economic with high reliability
- Insert moulding in the contact has a special treatment which prevents flux build-up during soldering and permits auto-dipping
- · Comprehensive range of SPNO tact switches
- · Select by overall height, body, actuator length and operating force

Specifications

Mechanical

Operation Force : 160 ±50 gf Brown (N)

260 ±50 gf Red (R) 100 ±50 gf Black (K) 350 g Salone (S)

Stop Strength : Place the switch such that a vertical, static load of 3 kgf shall be applied in the direction of the

stem

operation for a period of 15 seconds

Stroke : (12 × 12) 0.35 ±0.1mm

(6 × 6) 0.25 +0.2 / -0.1mm

Operating Temperature : -25°C to +70°C Storage Temperature : -30°C to +80°C

Vibration Test : MIL-STD-202F method 201 A

Frequency: 10 - 55 - 10 Hz / 1 minute

Directions: X, Y, Z three mutually perpendicular directions

Time: 2 hours each direction

High reliability

Shock Test : MIL-STD-202F method 213 B

Condition A

Gravity: 50 G (peak value), 11msec

Direction and Times: 6 sides and 3 times in each direction

High reliability

Electrical

Electrical Life : 260 gf has 50,000 cycles

100 gf, 160 gf has 500,000 cycles

Current Rating : 50mA, 12V DC

Max. Contact Resistance : $100m\Omega$

PCB Hole Diameter : 1 ±0.05mm

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Materials

Cover : Stainless steel
Base : Nylon thermoplastic

Colour : Black

Stem : Nylon thermoplastic

Colour: Black (100 gf), Brown (160 gf), Red (260 gf)

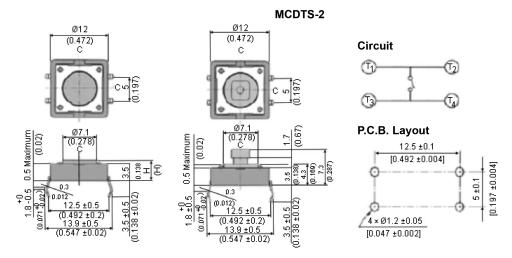
Contact disc : Phosphor bronze with silver cladding

Terminal : Brass with silver cladding
Cap : Thermoplastic ABS

Soldering Process

Wave Soldering: Recommended solder temperature at 500°F (260°C) max. 5 seconds subject to PCB thickness of 1.6mm Hand Soldering: Use a soldering iron of 30 watts, controlled at 608°F (320°C) approx. for 2 seconds while applying solder

Diagram



Specification Table (12mm × 12mm)

Actuator Style / Operating Force (gf)	PCB Drilling (mm)	Part Number
7.3 (SQ) × 3.8 / 160	12.5 × 5	MCDTS2-4N

Dimensions: Millimetres (Inches)

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