Features
- Available sharp click feel with a positive tactile feedback
- Ultra-miniature and lightweight structure suitable for high density mounting
- Very economical with high reliability
- RoHS compliant*

SDTM Series SMD Tact Switch

Electrical Characteristics

Electrical Life
50,000 cycles min. for 260 g, 500,000 cycles min. for 100 g, 160 g
Rating
DC 12 V, 50 mA Contact Resistance
100 ohms max. Insulation Resistance
100 Megohms min., DC 500 V min.

Dielectric Strength
AC 250 V for 1 minute Contact Arrangement
1 pole 1 position

Environmental Characteristics

Operation Force
100 g, 160 g, 260 g Tolerance
±50 g Stop Strength
Place the switch vertical, a static load of 3 kg shall be applied in the direction of actuator operation for a period of 15 seconds
Stroke
0.25 mm (+0.2 mm, -0.1 mm) Temperature Range
-25 °C to +70 °C Vibration Test
MIL-STD-202F, Method 201A Frequency
10-50-10Hz/minute Directions
X, Y, Z 3 mutually perpendicular directions Time
2 hours each direction, high reliability
Shock Test
MIL-STD-202F, Method 213A, Condition A Gravity
50 g (peak value), 11 m/sec. Directions/Time
6 sides and 3 times in each direction

Physical Characteristics

Cover Materials
Steel, tin plated Base Materials
Thermoplastic Nylon FG 101, UL94V-0 Actuator Materials
Thermoplastic Nylon UL94V-0 Color
Black, brown, red Contact Disc Materials
Phosphor bronze with silver cladding Terminal Materials
Brass with silver cladding

How To Order

SDT M - 6 10 - K TR
Model Product Code
M = SMD Size
6 = 6 mm Height
10 = 4.3 mm 20 = 5.0 mm 30 = 7.0 mm 44 = 7.3 mm (square head) 48 = 7.3 mm (square head) 50 = 9.5 mm 60 = 13 mm Actuating Force
K = 100 g (black head) N = 160 g (brown head) R = 260 g (red head) S = 320 g (salmon head) Y = 520 g (yellow head) Packaging Option
TR = Embossed tape* 610 = 1000 pcs. 620 = 900 pcs. 630 = 700 pcs. 644, 648 = 500 pcs. 650 = 380 pcs. ~ = Tube All models = 77 pcs. *not applicable to Model 560.

Product Dimensions

SDTM-610/620/630/650/660

CIRCUIT DIAGRAM

DIMENSIONS: MM (in)
TOLERANCES: 0.008 EXCEPT WHERE NOTED.

Packaging Specifications

SDTM-610/620/630/644/648/650(TR) - SDTM-610/620/630/644/648/650/660(TUBE)

Dimensions: MM (IN)
Tolerances: 0.2 (0.008) EXCEPT WHERE NOTED.

Reflow Soldering Profile

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.