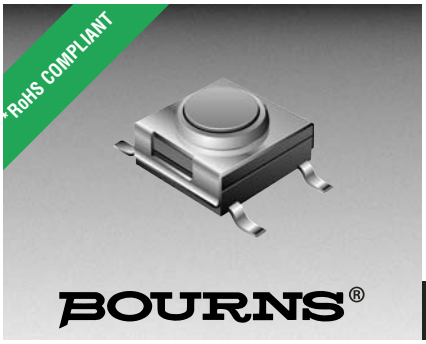


BOURNS®

Features

- Through-hole and SMD styles available
- Available sharp click feel with a positive tactile feedback
- Ultra-miniature and lightweight structure suitable for high density mounting
- Designed for washing after soldering
- RoHS compliant*

The ST(H,M,J,R)W Series is currently available, although not recommended for new designs.

- Insert molding in the contact with special treatment prevents flux buildup during soldering and permits autodipping

ST(H,M,J,R)W Series Sealed Tact Switch

Electrical Characteristics

Electrical Life.....100,000 cycles min.
Rating .....DC 12 V, 50 mA
Contact Resistance.....100 mohms max.
Insulation Resistance ..100 Mohms min. DC 500 V min.
Dielectric Strength .....AC 250 V for 1 minute
Contact Arrangement...1 pole 1 position

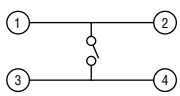
Environmental Characteristics

Mechanical Life.....100,000 cycles min.
Operation Force.....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)
Operating Temperature Range .....-25 °C to +70 °C
Storage Temperature Range .....-30 °C to +80 °C
Vibration Test .....MIL-STD-202F, Method 201A
Frequency .....10-55-10 Hz/1 minute
Directions.....X,Y,Z 3 mutually perpendicular directions
Time.....2 hours each direction, high reliability
Shock Test .....MIL-STD-202F, Method 213B, Condition A
Gravity .....50 g (peak value), 11 msec.
Directions/Time.....6 sides and 3 times in each direction

Physical Characteristics

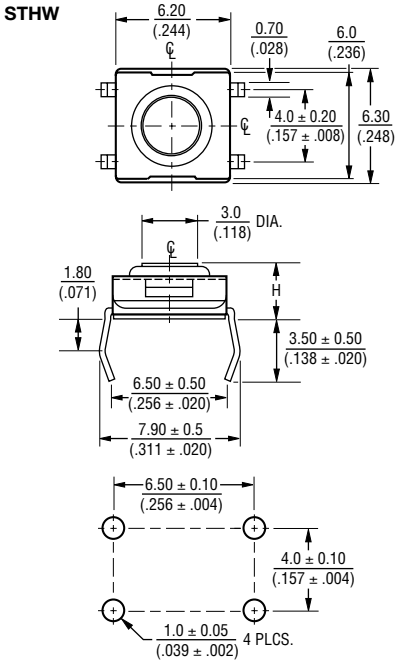
Cover Materials.....Stainless steel
Base Materials.....Thermoplastic LCP UL94V-0 black
Actuator Materials .....Thermoplastic Nylon UL94V-0 (680, 690)
Color.....Brown (Silver 680 type)
Contact Disc. Materials .....Phosphor bronze with gold cladding
Terminal Materials .....Brass with silver cladding

CIRCUIT DIAGRAM

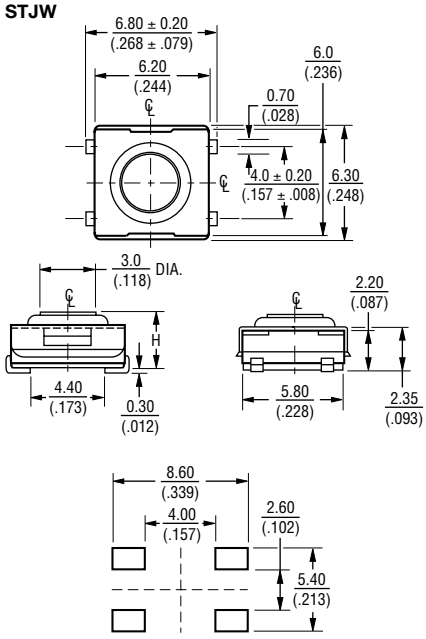


Product Dimensions

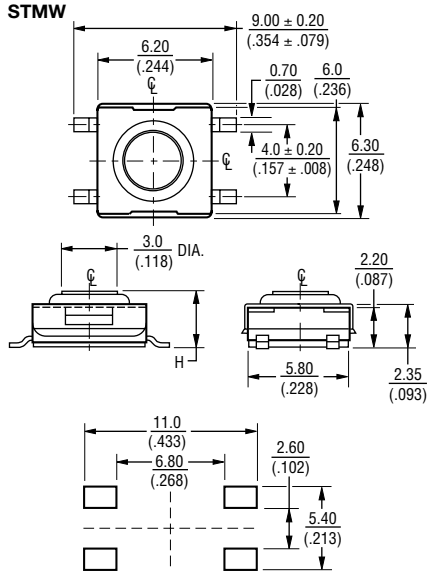
STHW



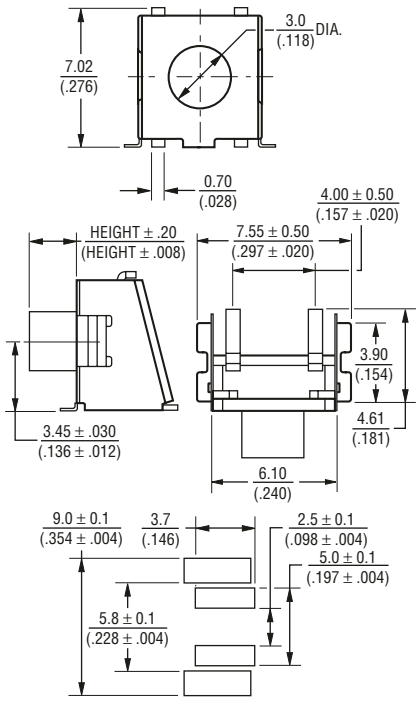
STJW



STMW



STRW



DIMENSIONS: MM (IN)

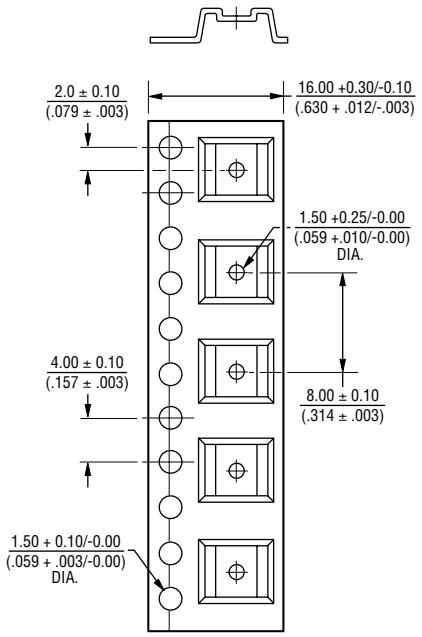
*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

ST(H,M,J,R)W Series Sealed Tact Switch

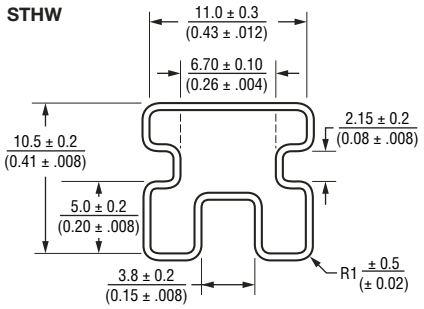
BOURNS®

Packaging Specifications

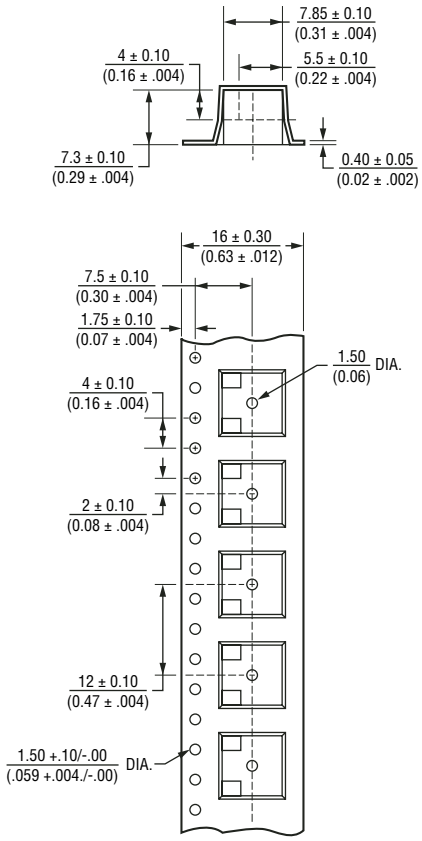
STJW
STMW



STMW
STJW
STHW



STRW



DIMENSIONS: MM / (INCHES)

How to Order

STM W - 6 60 - N TR

Model
- STM = SMD "G" style
- STH = Through-hole
- STJ = SMD "J" style
- STR = SMD right angle

Product Type
- W = Washable

Size
- 6 = 6 mm

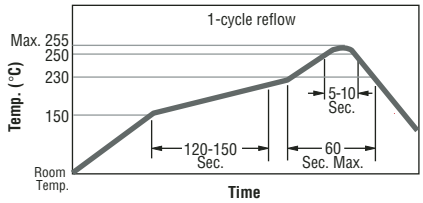
Height (STM, STH, STJ)
- 50 = 3.5 (0.14) (N, R, V)
- 60 = 3.1 (0.12) (N)
- 67 = 5.2 (0.20) (N, R, V)
- 80 = 2.3 (0.09) (S)
- 90 = 3.8 (0.15) (N, R, V)

Height (STR)
- 10 = 0 (0.00) (N, R)
- 20 = 0.8 (0.03) (N, R)
- 30 = 1.0 (0.04) (N, R)
- 40 = 2.3 (0.09) (N, R)

Actuating Force
- S = 160 g (Silver head)
- N = 160 g (Brown head)
- R = 260 g (Red head)
- V = 360 g (Clear head)

Packaging Option
- TR = Embossed tape (STM, STJ, STR only)
  - 610/620/630/640 = 700 pcs.
  - 650 = 1900 pcs.
  - 660 = 2000 pcs.
  - 667 = 900 pcs.
  - 680 = 2000 pcs.
  - 690 = 1900 pcs.
- __ = 75 pcs./tube (STM, STJ, STH only)

Reflow Soldering Profile



REV. 02/06

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