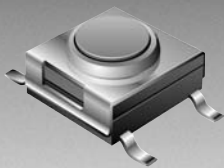


ROHS COMPLIANT



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

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

Electrical Characteristics

Electrical Life.....100,000 cycles min.
 RatingDC 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

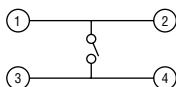
Environmental Characteristics

Mechanical Life100,000 cycles min.
 Operation Force160 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 TestMIL-STD-202F,
 Method 201A
 Frequency10-55-10 Hz/1 minute
 DirectionsX,Y,Z 3 mutually
 perpendicular directions
 Time.....2 hours each direction,
 high reliability
 Shock TestMIL-STD-202F,
 Method 213B, Condition A
 Gravity50 g (peak value), 11 msec.
 Directions/Time6 sides and 3 times
 in each direction

Physical Characteristics

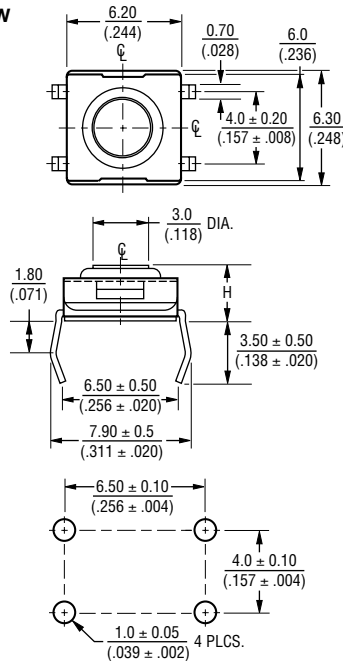
Cover Materials.....Stainless steel
 Base Materials.....Thermoplastic LCP
 UL94V-0 black
 Actuator Materials.....Thermoplastic
 Nylon UL94V-0 (680, 690)
 Color.....Brown (Silver 680 type)
 Contact Disc. MaterialsPhosphor
 bronze with gold cladding
 Terminal MaterialsBrass with silver
 cladding

CIRCUIT DIAGRAM

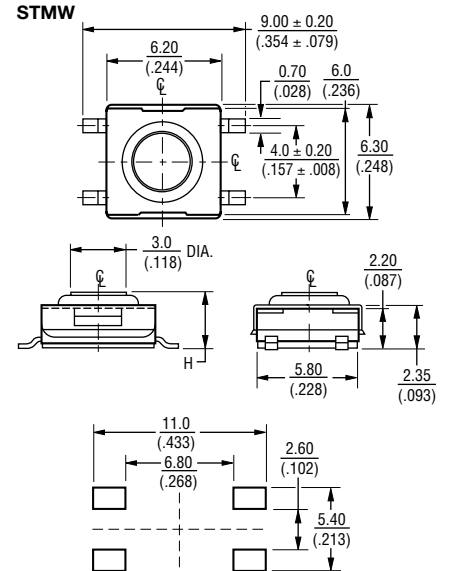


Product Dimensions

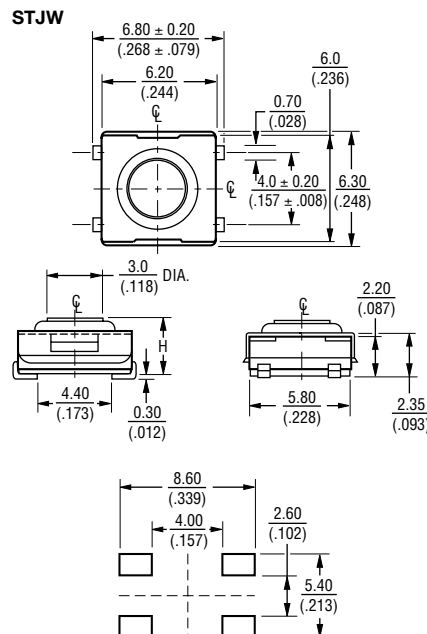
STHW



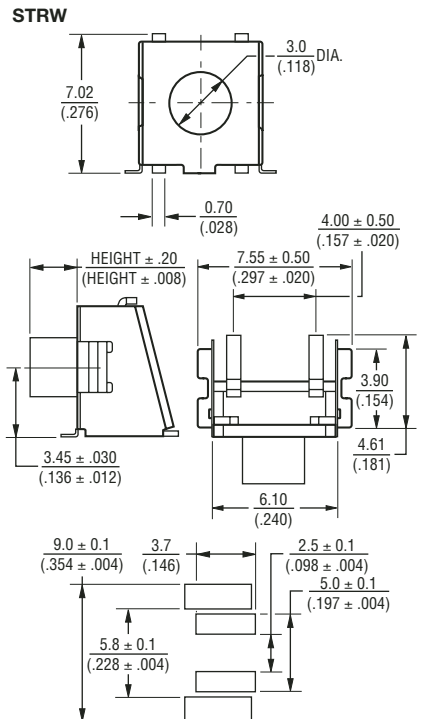
STMW



STJW



STRW



DIMENSIONS: MM
(IN)

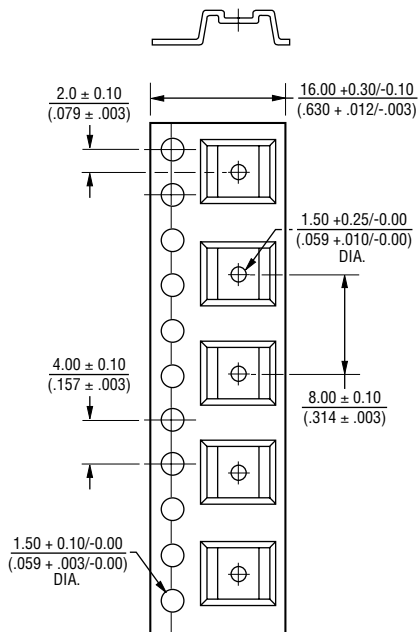
*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

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

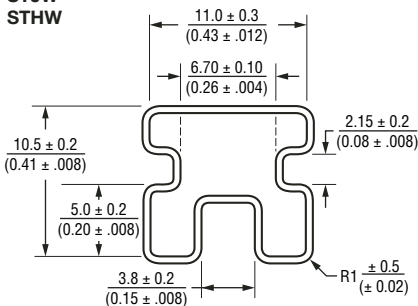
BOURNS®

Packaging Specifications

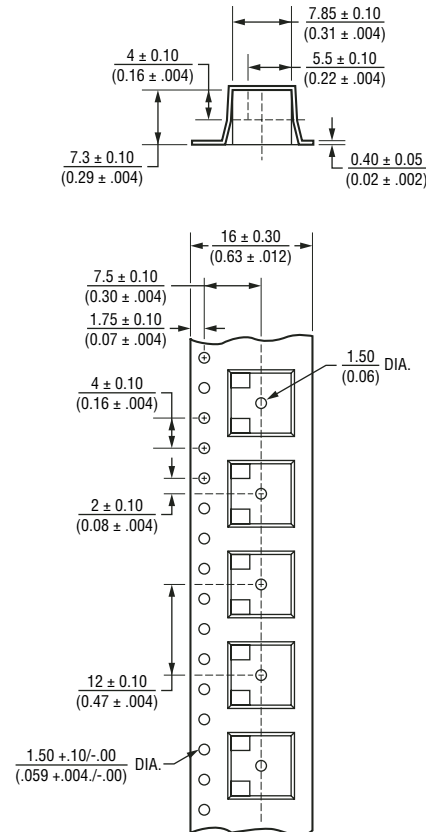
STJW
STMW



STMW
STJW
STHW



STRW



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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 = $\frac{3.5}{(0.14)}$ (N, R, V)

60 = $\frac{3.1}{(0.12)}$ (N)

67 = $\frac{5.2}{(0.20)}$ (N, R, V)

80 = $\frac{2.3}{(0.09)}$ (S)

90 = $\frac{3.8}{(0.15)}$ (N, R, V)

Height (STR) _____

10 = $\frac{0}{(0.00)}$ (N, R)

20 = $\frac{0.8}{(0.03)}$ (N, R)

30 = $\frac{1.0}{(0.04)}$ (N, R)

40 = $\frac{2.3}{(0.09)}$ (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.

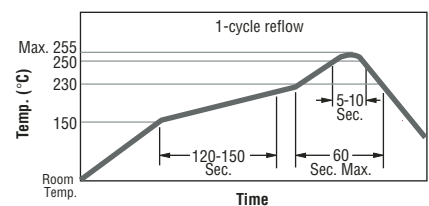
667 = 900 pcs.

680 = 2000 pcs.

690 = 1900 pcs.

___ = 75 pcs./tube (STM, STJ, STH only)

Reflow Soldering Profile



REV. 08/05

Specifications are subject to change without notice.
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