



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

Applications

- Stereos
- Radios
- Television & decoder boxes
- GPS receivers

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

Electrical Characteristics

Electrical Life

.....100,000 cycles min. for 160G, 260g
 RatingDC 12V, 50mA
 Contact Resistance.....100 mohms max.
 Insulation Resistance 100Mohms min.,
 DC 500V min.

Dielectric Strength

.....AC 250V for 1 minute
 Contact Arrangement...1 pole 1 position

Environmental Characteristics

Mechanical Life100,000 cycles min.
 Operation Force.....160g, 260g
 Tolerance±50g
 Stop Strength...Place the switch vertical,

a static load of 3kg shall be
 applied in the direction of actuator

operation for a period of 15 seconds
 Stroke.....0.25mm (+0.2mm, -0.1mm)
 Operating Temperature Range

.....-25°C to +70°C

Storage Temperature Range

.....-35°C to +80°C

Vibration TestMIL-STD-202F,
 Method 201A

Frequency10-55-10Hz/1minute

Directions.....X,Y,Z 3 mutually per
 pendicular directions

Time.....2 hours each direction,
 high reliability

Shock TestMIL-STD-202F,
 Method 213B, Condition A

Gravity50g (peak value), 11msec.

Directions/Time.....6 sides and 3 times
 in each direction

Physical Characteristics

Cover Materials.....Stainless steel

Base Materials.....Thermoplastic LCP
 UL94V-0 black

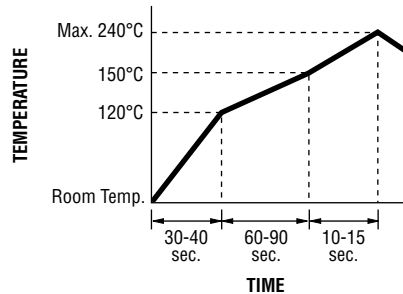
Actuator Materials.....Thermoplastic
 Nylon UL94V-0 (680, 690)

ColorBrown, Red (Silver 680 type)

Contact Disc. MaterialsPhosphor
 bronze with silver cladding

Terminal MaterialsBrass with silver
 cladding

REFLOW SOLDERING PROFILE (SMD MODEL)



SOLDERING PROCESS

Hand Soldering

Soldering iron of 30W or less,
 controlled at 320°C for approx. 2
 seconds while applying solder.

Reflow Soldering

Peak temperature or reflow oven
 should be set to 240°C max.

How to Order

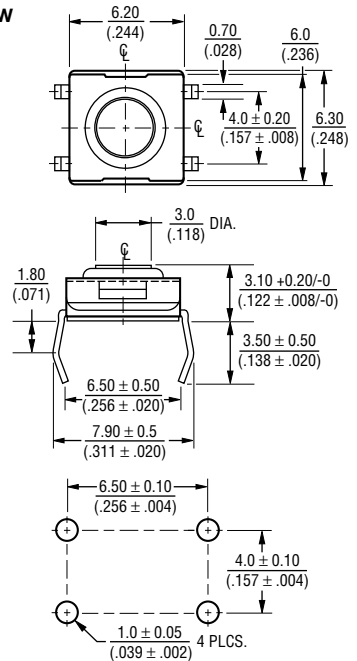
STM W - 6 60 - N TR

Model _____
 STM = SMD
 STH = Through-hole
 STJ = SMD J-Hook
 Product Type _____
 W = Washable
 Size _____
 6 = 6mm
 Height _____
 60 = 3.1mm (N)
 80 = 2.30mm (S)
 90 = 3.7mm (N,R)
 Actuating Force _____
 S = 160g (Silver)
 N = 160g (Brown)
 R = 260g (Red)
 Packaging Option _____
 (Type M, J only)
 TR = Embossed tape
 660, 680 = 2000 pcs.
 690 = 1900 pcs.

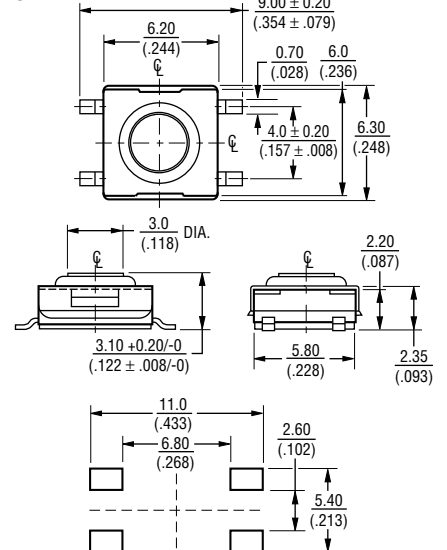
DIMENSIONS: $\frac{\text{MM}}{(\text{IN})}$

Product Dimensions

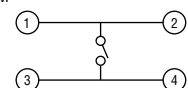
STHW



STMW



CIRCUIT DIAGRAM



Additional Features

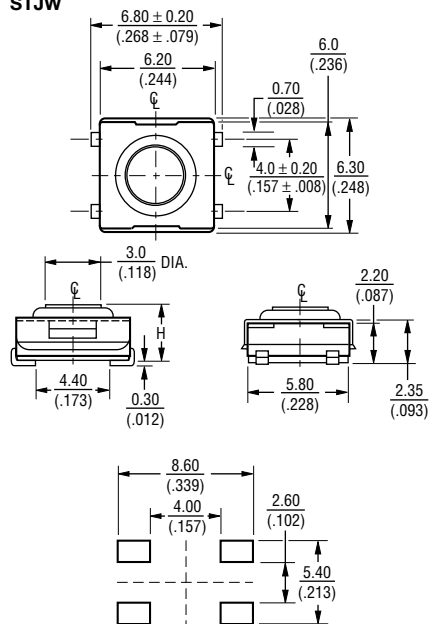
- Insert molding in the contact with special treatment prevents flux buildup during soldering and permits autodipping

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

BOURNS®

Product Dimensions

STJW



Packaging Specifications

STMW-660/680/690(TR) STJW-660/680/690(TR)

