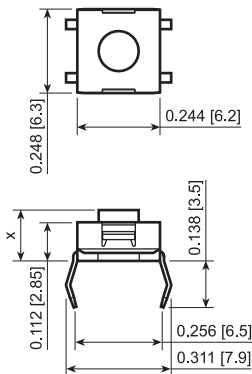
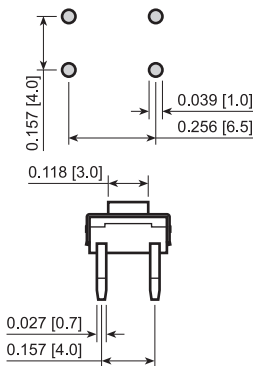


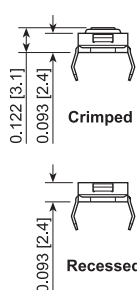
TSW-SERIES



Suggested PCB Layout



Actuator Options



FEATURES:

- Washable
- Reliable and Economical
- Tube or Tape and Reel Packaging

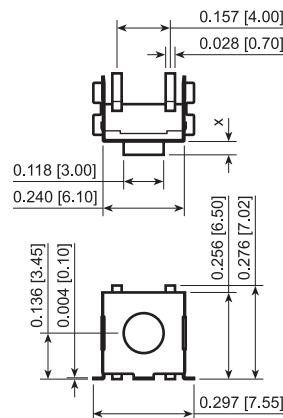
SPECIFICATIONS:

RATING: 50mA 12VDC
TEMPERATURE: -20°C to 70°C (Operating)
 -30°C to 80°C (Storage)
ELECTRICAL LIFE: For Silicone Actuators:
 500,000 Cycles
 For Crimped and Recessed:
 100,000 Cycles
CONTACT RESISTANCE: 100mΩ Max. at 5VDC
INSULATION RESISTANCE: 100MΩ Min. at 500VDC
DIELECTRIC STRENGTH: 250VAC for 1 Minute
VIBRATION TEST: MIL-STD-202 METHOD 201A
SHOCK TEST: MIL-STD-202 METHOD 213B
OPERATION FORCE: Varies

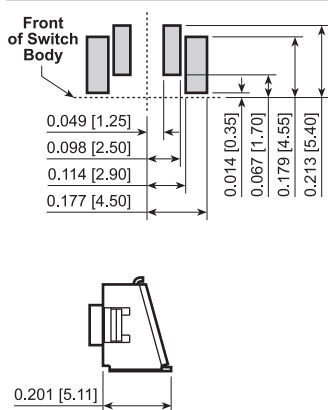
MATERIALS:

BASE: Polyamide 6/6, UL94 V-0
COVER: Stainless Steel
 Tin Plated Steel
ACTUATOR: Silicone Rubber
 Polyamide 6/6, UL94 V-0
 Nickel Plated Brass
CONTACTS: Silver Plated Phosphor Bronze
 Stainless Steel
TERMINALS: Silver Plated Brass

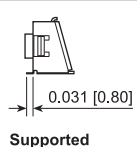
TSAMW-SERIES



Suggested PCB Layout

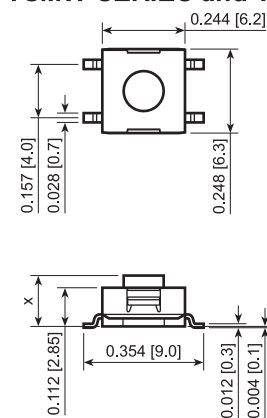


Options

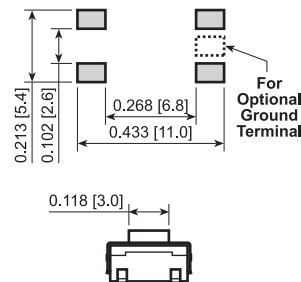


TSW-3.8-180-B

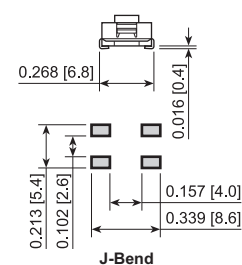
TSMW-SERIES and TSJW-SERIES



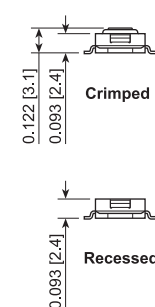
Suggested PCB Layout



Terminal Options



Actuator Options



Series

TSW - Through Hole, Washable
 TSAMW - Right Angle SMT, Washable
 TSM9W - Gull Wing SMT, Washable
 TSJW - J-Bend SMT, Washable

Actuator Height (X Dimension)

For TSW, TSMW, and TSJW Series:
 2.3R - Recessed
 3.1C - Crimped
 3.1CG - Crimped, Grounded
 3.5
 3.8
 4.5
 5.2
 For TSAMW Series:
 0.0
 0.8
 1.0
 2.35
 3.3

Actuation Force

For TSW, TSMW, and TSJW Series:
 160 - 160gf (*)
 180 - 180gf (**)
 260 - 260gf
 360 - 360gf
 For TSAMW Series:
 180 - 180gf
 260 - 260gf

Options

For TSW, TSMW, and TSJW Series:
 None
 For TSAMW Series:
 U - Not Supported
 S - Supported

Packaging

For TSW Series:
 B - Tube
 For TSM9W and TSJW Series:
 B - Tube
 TR - Tape and Reel
 For TSAMW Series:
 None - Bulk
 TR - Tape and Reel

Notes:
 * = Available with 2.3R, 3.1C, and 3.1CG Actuators Only.
 ** = Available with 3.5, 3.8, 4.5, and 5.2 Actuators Only.

EXAMPLE PART NUMBERS:

TSM9W-3.1C-160-TR 3.1mm
 9.0mm Gull Wing SMT, Crimped Actuator
 TSJW-3.1C-160-TR 3.1mm
 J-Bend SMT, Crimped Actuator