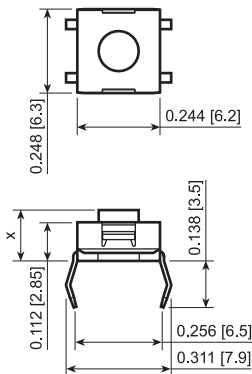
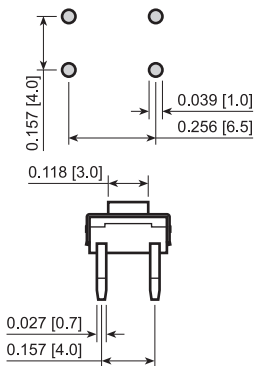


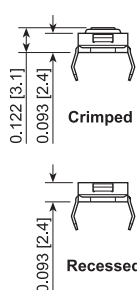
TSW-SERIES



Suggested PCB Layout



Actuator Options



FEATURES:

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

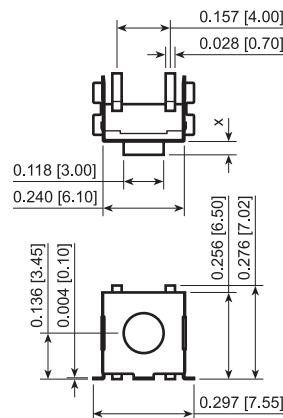
SPECIFICATIONS:

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

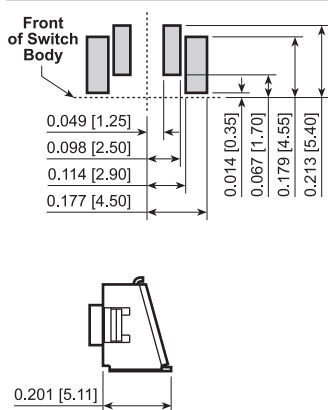
MATERIALS:

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

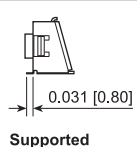
TSAMW-SERIES



Suggested PCB Layout

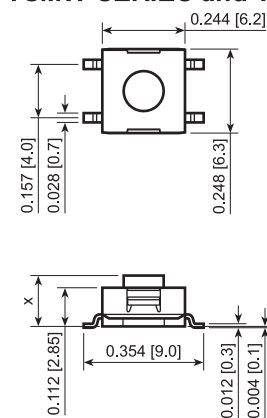


Options

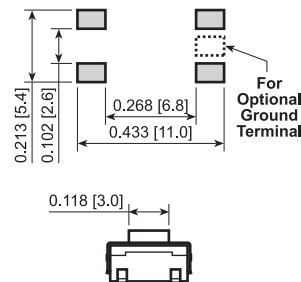


TSW-3.8-180-B

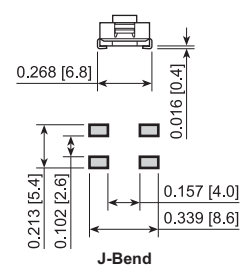
TSMW-SERIES and TSJW-SERIES



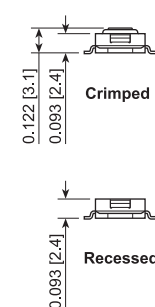
Suggested PCB Layout



Terminal Options



Actuator Options



Series	Actuator Height (X Dimension)	Actuation Force	Options	Packaging
TSW TSAMW TSM9W TSJW	2.3R 3.1C 3.1CG 3.5 3.8 4.5 5.2	160 - 160gf (*) 180 - 180gf (**) 260 - 260gf 360 - 360gf	None U - Not Supported S - Supported	B - Tube B - Tube TR - Tape and Reel
TSW TSAMW TSM9W TSJW	0.0 0.8 1.0 2.35 3.3	180 - 180gf 260 - 260gf	None S - Supported	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.

TSAMW-3.3-260-S-TR



TSM9W-3.1CG-160-TR
 TSM9W-5.2-260-TR
 TSM9W-2.3R-160-TR

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