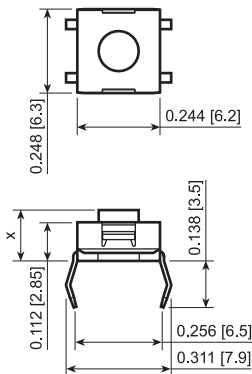
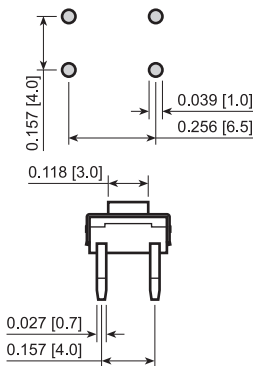


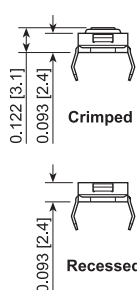
TSW-SERIES



Suggested PCB Layout



Actuator Options



FEATURES:

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

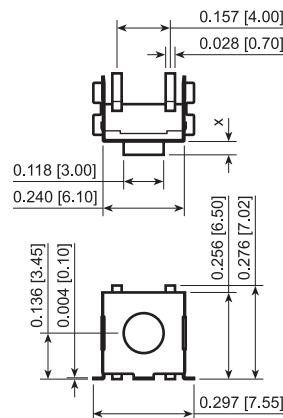
SPECIFICATIONS:

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

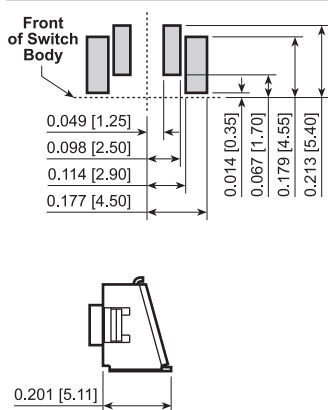
MATERIALS:

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

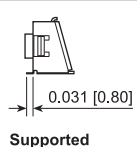
TSAMW-SERIES



Suggested PCB Layout

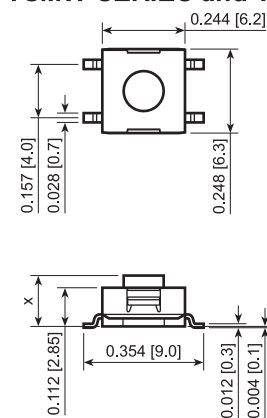


Options

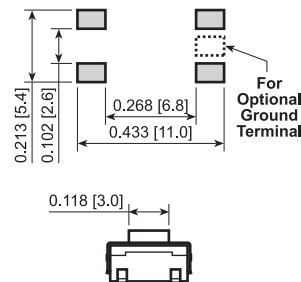


TSW-3.8-180-B

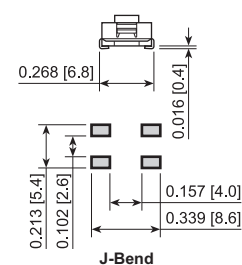
TSMW-SERIES and TSJW-SERIES



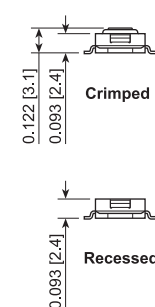
Suggested PCB Layout



Terminal Options



Actuator Options



Series	Actuator Height (X Dimension)	Actuation Force	Options	Packaging
TSW - Through Hole, Washable	2.3R - Recessed	160 - 160gf (*)	For TSW, TSMW, and TSJW Series: None	For TSW Series: B - Tube
TSAMW - Right Angle SMT, Washable	3.1C - Crimped	180 - 180gf (**)	For TSMW Series: U - Not Supported	For TSMW and TSJW Series: B - Tube
TSM9W - Gull Wing SMT, Washable	3.1CG - Crimped, Grounded	260 - 260gf	S - Supported	TR - Tape and Reel
TSJW - J-Bend SMT, Washable	3.5	360 - 360gf		
	3.8			
	4.5			
	5.2			

For TSAMW Series:
 0.0
 0.8
 1.0
 2.35
 3.3

For TSAMW Series:
 180 - 180gf
 260 - 260gf

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