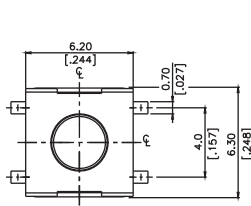


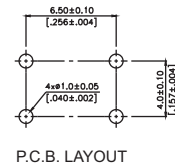
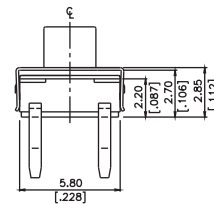
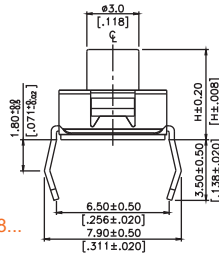
Tactile Switches

6 x 6 mm Washable Tactile Switch

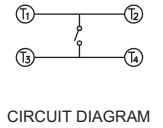
TP3 Series



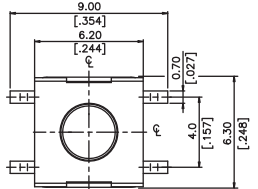
TP3H45..., TP3H35..., TP3H52..., TP3H38...
PC Terminals



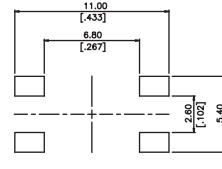
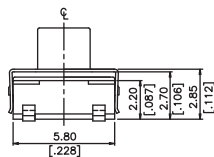
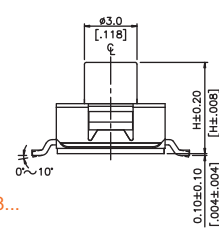
P.C.B. LAYOUT



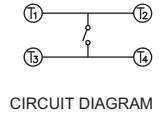
CIRCUIT DIAGRAM



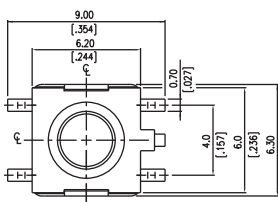
TP3S45..., TP3S35..., TP3S52..., TP3S38...
SMT Terminals



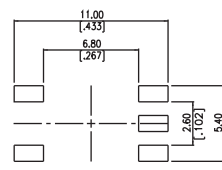
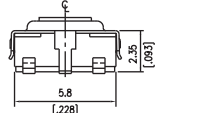
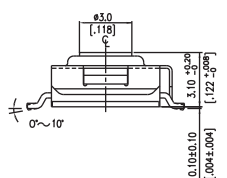
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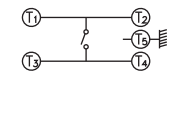
CIRCUIT DIAGRAM



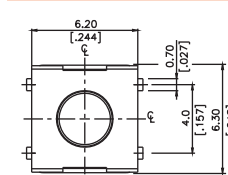
TP3SG31... SMT Terminals with Ground Terminal



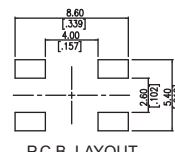
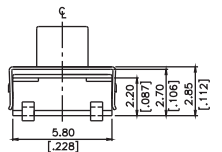
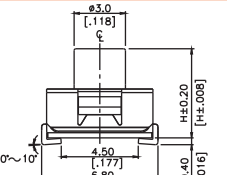
P.C.B. LAYOUT



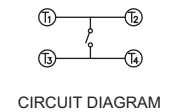
CIRCUIT DIAGRAM



TP3J45..., TP3J35..., TP3J52..., TP3J38... SMT J-Bending Terminals



P.C.B. LAYOUT



CIRCUIT DIAGRAM

SPECIFICATIONS:

- > Rating: 50mA 12VDC
- > Contact Resistance: 100 mohm Max.
- > Insulation Resistance: 100 Mohm Min. at 500VDC
- > Dielectric Strength: 250VAC 1 Minute
- > Electrical Life: 100,000 Cycles Min. (for Height 2.3mm, 3.1mm)
500,000 Cycles Min. (for other Heights)
- > Stop Strength: 3kgf Max. vertical static 15 Seconds
- > Stroke: 0.25+0.20/-0.10 mm (for 23U, 31K, 31C, 73)
0.45±0.20 mm (for 38/52/K/C, 35/45/K/C/J)
0.60±0.20 mm (for 38J, 52J)
- > Operating Temperature: -40°C ~ +85°C
- > Protection Degree: IP67

MATERIALS:

- > Stem: High Temp Thermoplastic Nylon UL94V-0 or Silicone Rubber or Brass with Nickel plated
- > Adhesive Tape: Teflon or Kapton
- > Filler: Nylon
- > Contact: Stainless Steel
- > Cover: Stainless Steel or Nickel Silver (only TP3SG...)
- > Base: High-Temp. Thermoplastic UL94V-0 black

SOLDERING CONDITIONS:

- > Hand Soldering (PC Terminals): 30W, 350°C 5 Seconds
- > Wave Soldering (SMT Terminals): 260°C 5 Seconds Max.
- > Reflow Soldering (SMT Terminals): 260°C 5~10 Sec. Max.

HOW TO ORDER:

UNIT: mm [inch]

Tolerance unless otherwise stated: ±0.2mm

TP3

1	2	3	4	5

1 TERMINALS:

- H PC Terminals (THT)
- S SMT
- SG SMT with Ground Terminal
- J SMT J-Bending

2 TOTAL HEIGHT "H":

- 45 4.5mm (only for 180/260gf)
- 35 3.5mm (only for 180/260/360gf)
- 31 3.1mm (only for 160/260gf)
- 52 5.2mm (only for 180/260/360gf)
- 73 7.3mm (only for 180/360gf, not for SMT J-Bending)
- 77 7.7mm (only for 160/360gf and SMT J-Bending)
- 23 2.3mm (only for 160gf silver)
- 38 3.8mm (only for 180/260/360gf)

3

- K
- U
- C
- J

STEM COLOR & OPERATING FORCE:

- Brown, 160±50gf (only for height 3.1mm)
- Brown, 180±50gf (only for height 3.8mm, 5.2mm, 3.5mm, 4.5mm, 7.3/7.7mm)
- Silver 160±50gf (only for height 2.3mm)
- Red, 260±70gf (only for height 3.8mm, 5.2mm, 3.1mm, 3.5mm, 4.5mm)
- Transparent, 360±90gf (only for height 3.8mm, 5.2mm, 3.5mm, 7.3/7.7mm)

4

- No Code
- H

MATERIAL:

- RoHS compliant (Standard)
- RoHS compliant and Halogen-Free

5

- BK
- TB
- TR

PACKAGING:

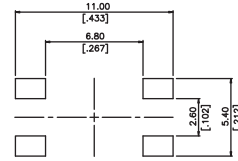
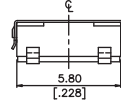
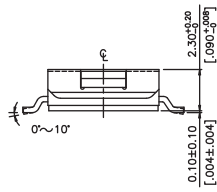
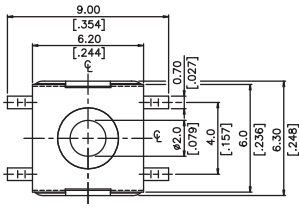
- Bulk
- Tube
- Tape & Reel (only for SMT)



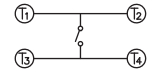
Tactile Switches

6 x 6 mm Washable Tactile Switch

TP3 Series

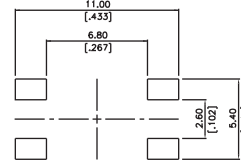
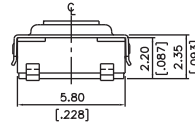
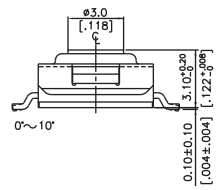
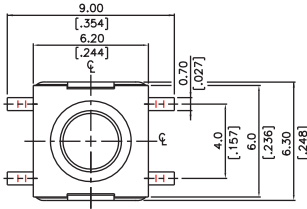


P.C.B. LAYOUT

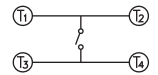


CIRCUIT DIAGRAM

TP3S23...

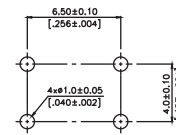
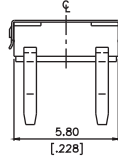
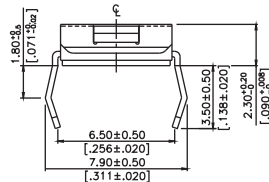
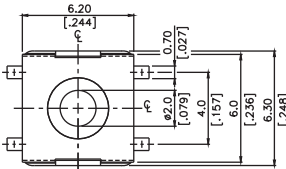


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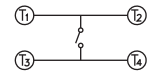


CIRCUIT DIAGRAM

TP3S31...

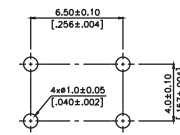
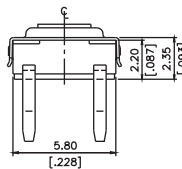
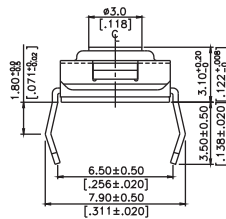
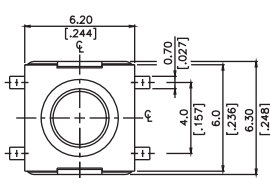


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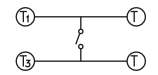


CIRCUIT DIAGRAM

TP3H23...

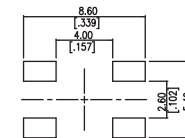
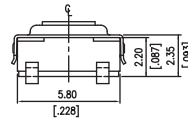
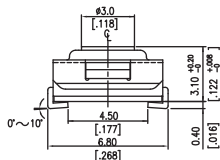
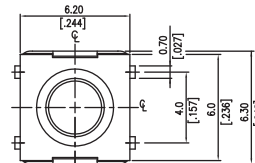


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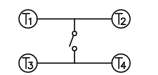


CIRCUIT DIAGRAM

TP3H31...

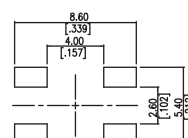
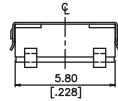
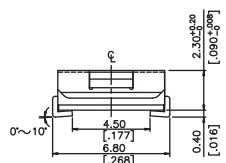
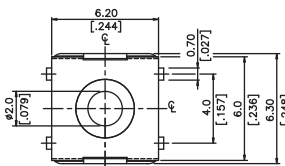


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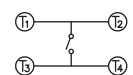


CIRCUIT DIAGRAM

TP3J31...



P.C.B. LAYOUT



CIRCUIT DIAGRAM

TP3J23...