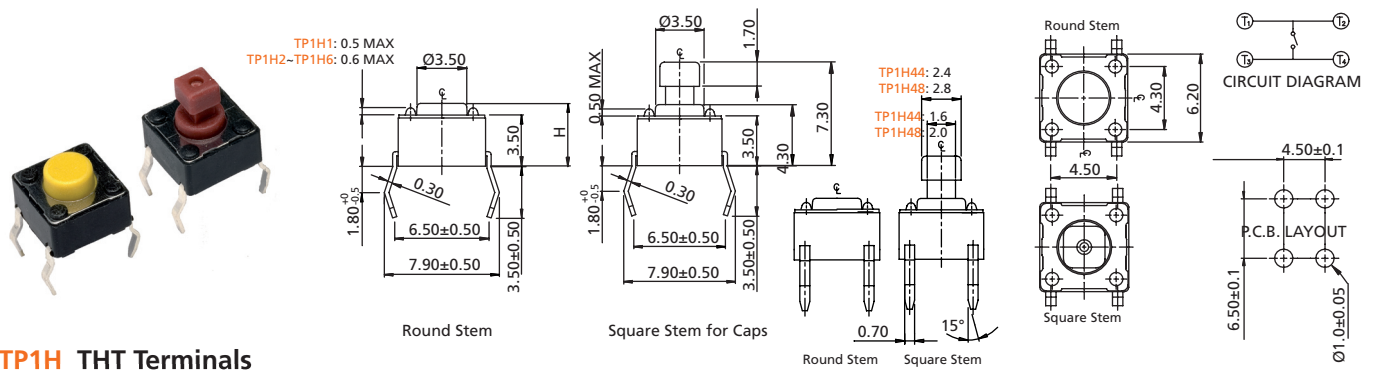


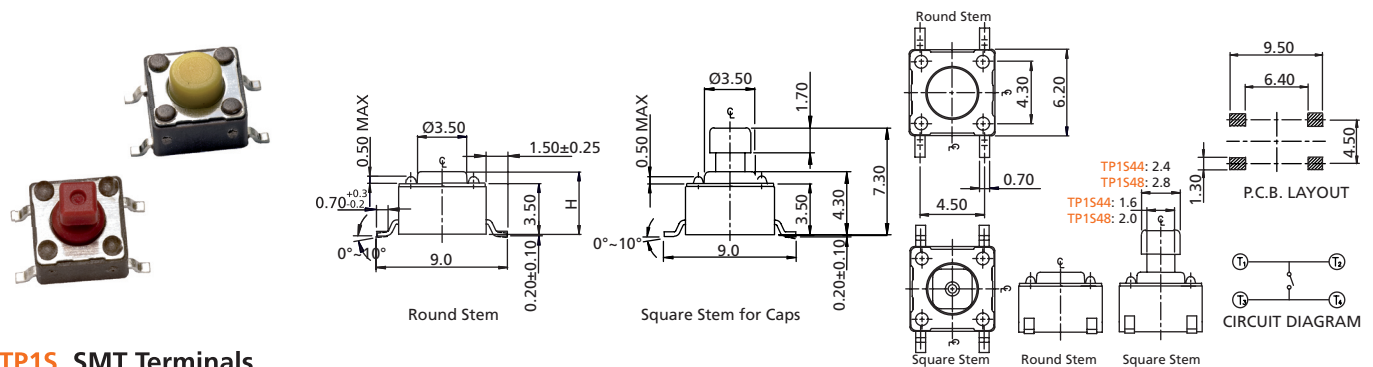
Tactile Switches

Standard 6 x 6 mm Tactile Switches

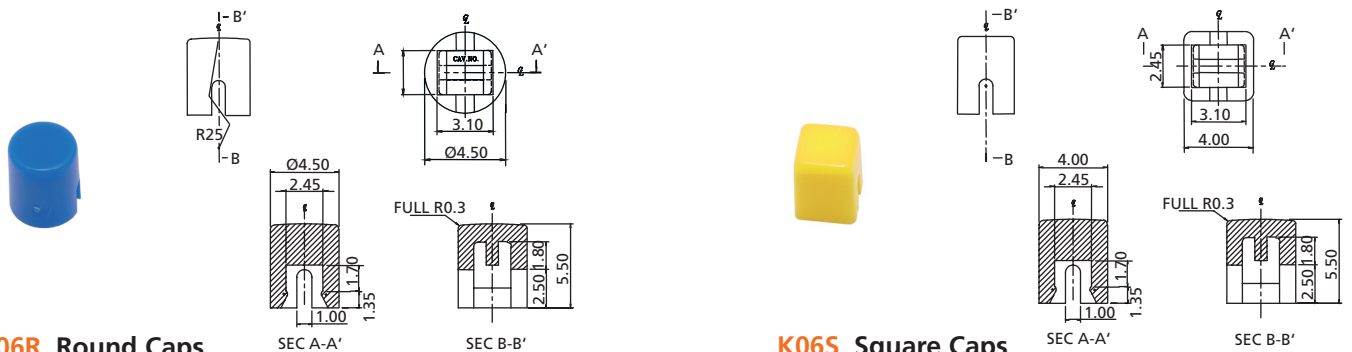
TP1 Series



TP1H THT Terminals



TP1S SMT Terminals



K06R Round Caps

K06S Square Caps

How to order:

TP1 + (Caps)

1 TYPE OF TERMINALS:

H THT
S SMT

2 Dimension H:

1 H=4.3mm (Round Stem)
2 H=5.0mm (Round Stem)
3 H=7.0mm (Round Stem)
44 H=7.3mm (Square Stem 2.4mm)
48 H=7.3mm (Square Stem 2.8mm)
5 H=9.5mm (Round Stem)
6 H=13.0mm (Round Stem)

3 STEM COLOR & OPERATING FORCE:

A Black & 100±50gf
AK Black & 160±50gf
K Brown & 160±50gf
C Red & 260±50gf
J Salmon & 320±80gf
E Yellow & 520±130gf

4 PACKAGE STYLE:

BK Bulk Pack
TB Tube (TP1S, TP1H1 & TP1H2 only)
TR Tape & Reel (TP1S only, except TP1S6)

Optional:

5 **CAP TYPE (Only for Square Stems):**
K06S Square Caps
K06R Round Caps

6 COLOR OF CAPS:

A Black
B Ivory
C Red
E Yellow
F Green
G Blue
H Gray
S Salmon

General Specifications:

MATERIALS

» Contact Disc: Phosphor Bronze with silver cladding
» Terminal: Brass with silver plated

MECHANICAL

» Stroke: 0.25 (+0.2/-0.1) mm
» Operation Temperature: -25°C to +70°C
» Storage Temperature: -30°C to +80°C

ELECTRICAL

» Electrical Life: 300,000 cycles for 320gf, 520gf
500,000 cycles for 260gf
1,000,000 cycles for 100gf, 160gf
» Rating: 50mA, 12VDC
» Contact Arrangement: 1 pole 1 throw

LEADFREE SOLDERING PROCESSES

» Wave Soldering: Recommended solder temperature at 260°C max. 5 seconds subject to PCB 1.6mm thickness (for THT).
» Reflow Soldering: When applying reflow soldering, the peak temperature or the reflow oven should be set to 260°C max. 10 seconds max. (for SMT).

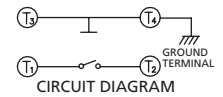
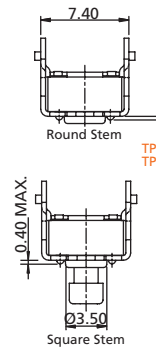
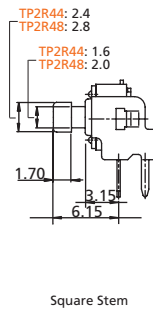
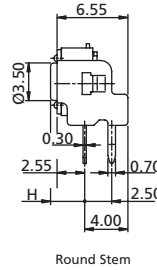
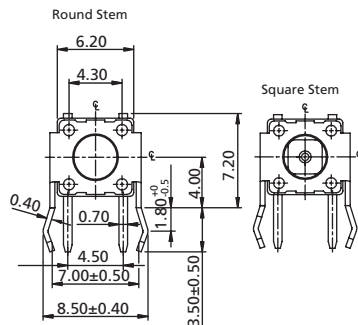
General Tolerance: ± 0.2 mm

All specifications are restricted to QA test criteria. DRW: D.L. JIN, CHK: D.F. LEE, APP: H.Z. QIU

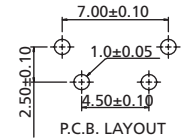
Tactile Switches

6 x 6 mm THT Tactile Switches with Ground Terminal

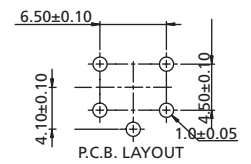
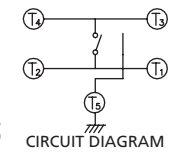
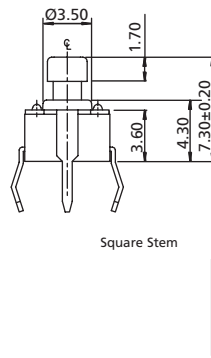
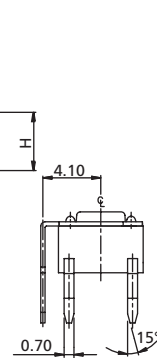
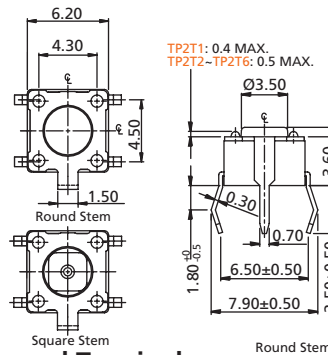
TP2 Series



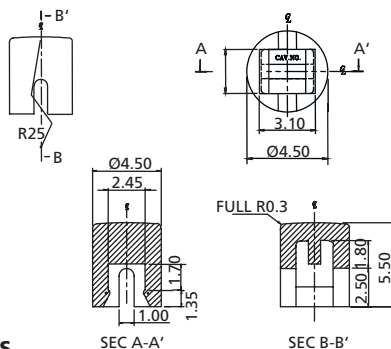
TP2R1: 0.3 MAX.
TP2R2-TP2R6: 0.4 MAX.



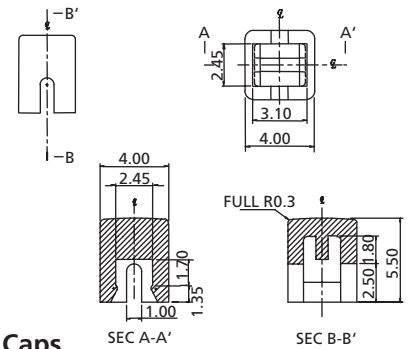
TP2R Right Angle Type with Ground Terminal



TP2T Top Type with Ground Terminal



K06R Round Caps



K06S Square Caps

How to order:

TP2 + (Caps)

1 TYPE OF TACTILE SWITCH:
R Right Angle Type with Ground Terminal
T Top Type with Ground Terminal

2 DIMENSION H FOR TP2R:
1 H=3.15mm (Round Stem)
2 H=3.85mm (Round Stem)
3 H=5.85mm (Round Stem)
44 H=6.15mm (Square Stem 2.4mm)
48 H=6.15mm (Square Stem 2.8mm)
5 H=8.35mm (Round Stem)
6 H=11.85mm (Round Stem)

3 DIMENSION H FOR TP2T:
1 H=4.3mm (Round Stem)
2 H=5.0mm (Round Stem)
3 H=7.0mm (Round Stem)
44 H=7.3mm (Square Stem 2.4mm)
48 H=7.3mm (Square Stem 2.8mm)
5 H=9.5mm (Round Stem)
6 H=13.0mm (Round Stem)

5 STEM COLOR & OPERATING FORCE:
A Black & 100±50gf
K Brown & 160±50gf
C Red & 260±50gf
J Salmon & 320±80gf
E Yellow & 520±130gf

4 PACKAGE STYLE:
BK Bulk Pack

Optional:

5 CAP TYPE
(Only for Square Stems):
K06S Square Caps
K06R Round Caps

6 COLOR OF CAPS:
A Black
B Ivory
C Red
E Yellow
F Green
G Blue
H Gray
S Salmon

General Specifications:

MATERIALS

- » Contact Disc: Stainless steel
- » Terminal: Brass with silver plated

MECHANICAL

- » Stroke: 0.25 (+0.2/-0.1) mm
- » Operation Temperature: -25°C to +70°C
- » Storage Temperature: -30°C to +80°C

ELECTRICAL

- » Electrical Life: 300,000 cycles for 320gf, 520gf
500,000 cycles for 260gf
1,000,000 cycles for 100gf, 160gf
- » Rating: 50mA, 12VDC
- » Contact Arrangement: 1 pole 1 throw

LEADFREE SOLDERING PROCESSES

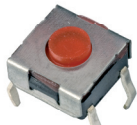
- » Wave Soldering: Recommended solder temperature at 260°C max. 5 seconds subject to PCB 1.6mm thickness.

General Tolerance: ± 0.2 mm

Tactile Switches

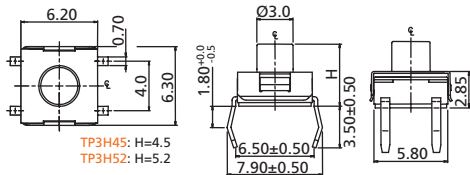
6 x 6 mm Washable Tactile Switches

TP3 Series

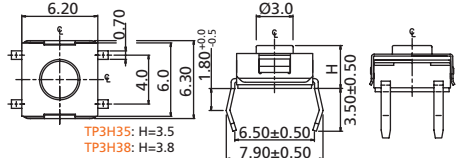


CIRCUIT DIAGRAM

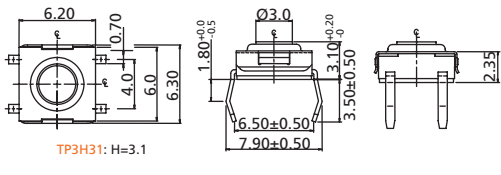
P.C.B. LAYOUT



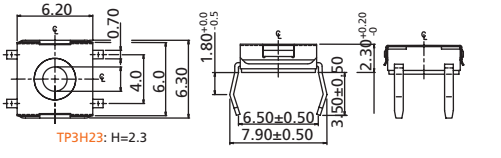
TP3H45: H=4.5
TP3H52: H=5.2



TP3H35: H=3.5
TP3H38: H=3.8




TP3H31: H=3.1



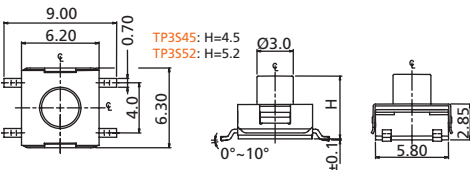
TP3H23: H=2.3

TP3H THT Terminals

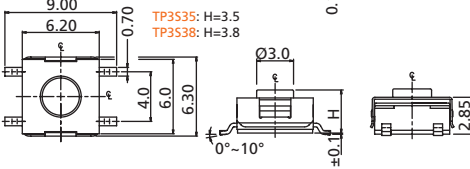


CIRCUIT DIAGRAM

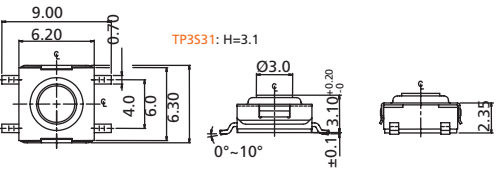
P.C.B. LAYOUT



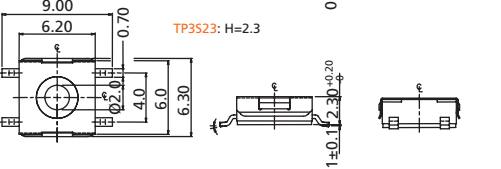
TP3S45: H=4.5
TP3S52: H=5.2



TP3S35: H=3.5
TP3S38: H=3.8

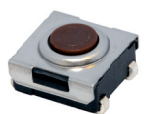


TP3S31: H=3.1



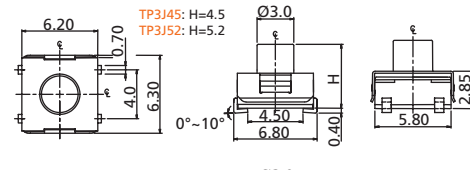
TP3S23: H=2.3

TP3S SMT Terminals

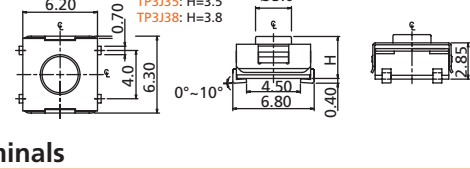


CIRCUIT DIAGRAM

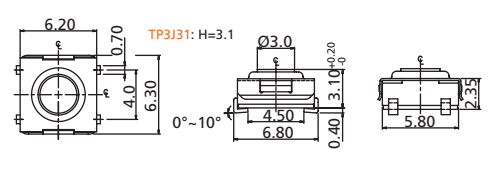
P.C.B. LAYOUT



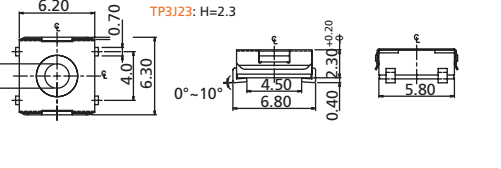
TP3J45: H=4.5
TP3J52: H=5.2



TP3J35: H=3.5
TP3J38: H=3.8



TP3J31: H=3.1



TP3J23: H=2.3

TP3J SMT J-Bending Terminals

How to order:

TP3 1 2 3 4

- 1 TYPE OF TERMINALS:**
- H THT
 - S SMT
 - J SMT J-Bending

- 2 Dimension H:**
- 23 H=2.3mm
 - 31 H=3.1mm
 - 35 H=3.5mm
 - 38 H=3.8mm
 - 45 H=4.5mm
 - 52 H=5.2mm

- 3 STEM COLOR & OPERATING FORCE:**
- K Brown & 160±50gf (Only for H=3.1mm)
 - Brown & 180±50gf (Only for H=3.5 / 3.8 / 4.5 / 5.2mm)
 - U Silver & 160±50gf (Only for H=2.3mm)
 - C Red & 260±70gf (Only for H=3.5 / 3.8 / 4.5 / 5.2mm)
 - J Transparent & 360±90gf (Only for H=3.5 / 3.8 / 5.2mm)

- 4 PACKAGE:**
- BK Bulk (TP3J Only)
 - TB Tube
 - TR Tape & Reel

General Tolerance: ± 0.2 mm

General Specifications:

FEATURES

- » Sharp click feel with a positive tactile feedback
- » Seal characteristics:
 - The washable type switches allow submersed washing after soldering.
 - Proceed the cleaning process after the S/W temperature decreases to normal.
 - Degree of protection: IP46

MATERIALS

- » Terminal: Brass with silver plated
- » Contact: Stainless steel

MECHANICAL

- » Operation Temperature: -25°C to +70°C
- » Storage Temperature: -30°C to +80°C

ELECTRICAL

- » Electrical Life: 500,000 cycles for TP3_38, 35K(C)J, 45K(C) & 52B(C)J
- 100,000 cycles for TP3_31K, 23U & TP4S31KG
- » Rating: 50mA, 12VDC
- » Contact Arrangement: 1 pole 1 throw

LEADFREE SOLDERING PROCESSES

- » 260°C max. 5 seconds for THT terminals
- » 260°C max. 10 seconds for SMT terminals