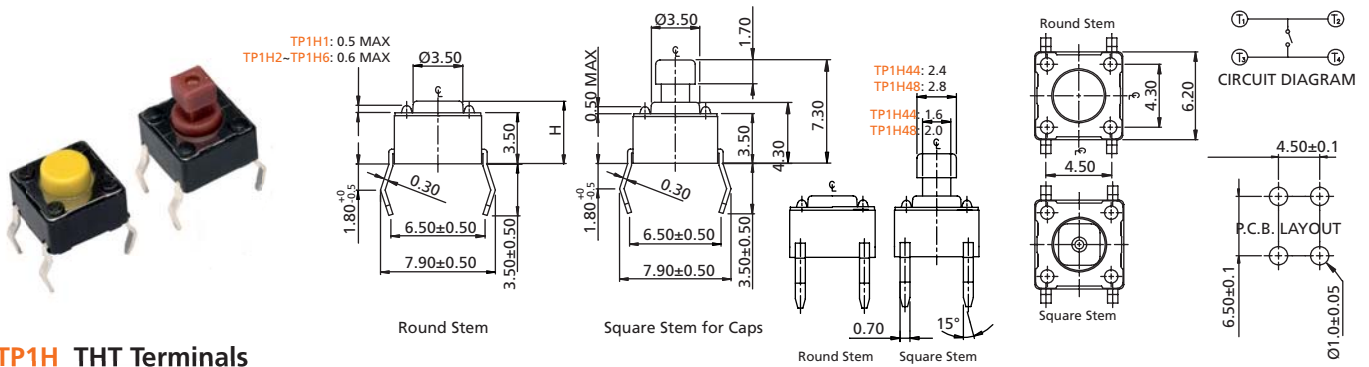


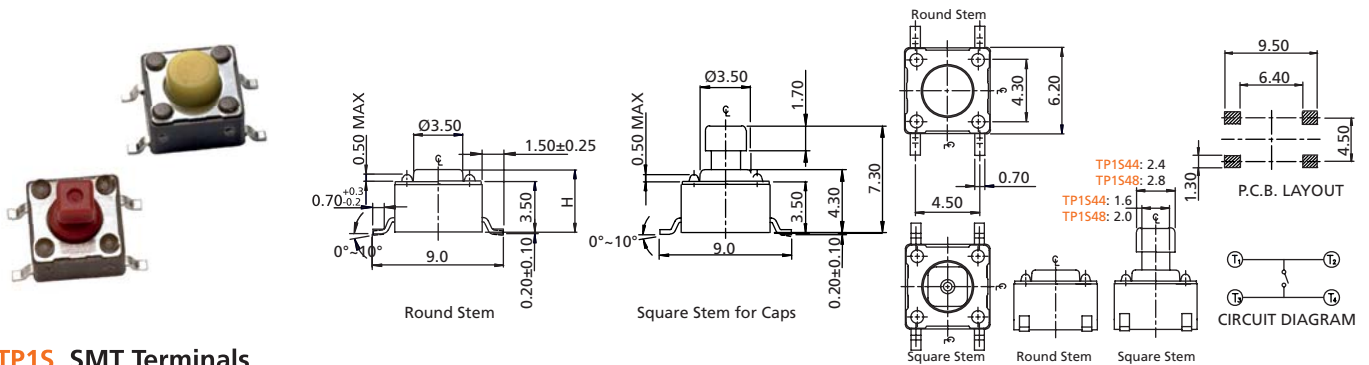
Tactile Switches

Standard 6 x 6 mm Tactile Switches

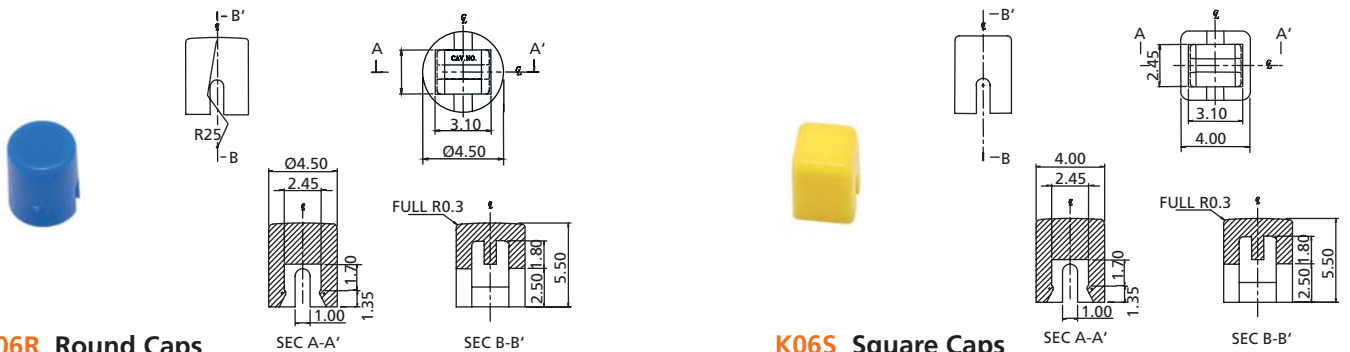
TP1 Series



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)

Individual stem heights available by request

3 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 MATERIAL OF DOME:

- Blank Phosphor Bronze Dome
- S Stainless Steel Dome

5 PACKAGE STYLE:

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

Optional:

6 CAP TYPE (Only for Square Stems):

- K06S Square Caps
- K06R Round Caps

7 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 (Phosphor Bronze Dome):
 - 50,000 cycles for 320gf, 520gf
 - 100,000 cycles for 260gf
 - 200,000 cycles for 100gf, 160gf
- » Electrical Life (Stainless Steel Dome):
 - 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

Tactile Switches

Standard 6 x 6 mm Tactile Switches

TP1 Series

MATERIAL

Base:	UL94V-0 Nylon Thermoplastic (TP1H) UL94V-0 Nylon High-Temp. Thermoplastic (TP1S)
Cover:	Stainless steel
Stem:	UL94V-0 Nylon Thermoplastic (TP1H) UL94V-0 Nylon High-Temp. Thermoplastic (TP1S) Color: Black(100gf) , Brown(160gf) , Red(260gf) , Salmon(320gf) , Yellow(520gf)
Contact Disc:	Phosphor bronze with silver cladding (TP1H) Stainless Steel (TP1S)
Terminal:	Brass with silver plated

ADDITIONAL ELECTRICAL SPECIFICATIONS

Contact Resistance:	100mΩ max.
Insulation Resistance:	100MΩ min. 500VDC
Dielectric Strength:	250 VAC / 1 minute

SOLDERING PROCESS

TP1H:

WAVE SOLDERING: Recommended solder temperature at 500°F(260)max. 5 seconds subject to PBC 1.6mm thickness (For through hole type)

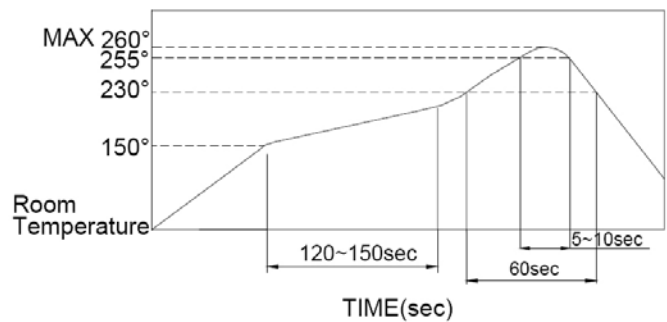
Hand soldering: Use a soldering iron of 30 watts controlled at 350°C approximately max 5 seconds while applying solder.

TP1S:

HAND SOLDERING : Use a soldering iron of 30 watts, controlled at 350 approximately 5 seconds while applying solder.

REFLOW SOLDERING: When applying reflow soldering, the peak temperature or the reflow oven should be set to 260°C max.

Reflow Temperature Profile: (reference)



PACKING UNIT

Partnumber	No. / Bag	Partnumber	No. / Tube	Partnumber	No. / Reel
TP1H_ _BK	1000	TP1H1_TB	77	TP1S1_TR	1000
		TP1H2_TB	77	TP1S2_TR	900
		TP1S1_TB	77	TP1S3_TR	700
		TP1S2_TB	77	TP1S44_TR	500
		TP1S3_TB	77	TP1S48_TR	500
		TP1S44_TB	77	TP1S5_TR	380
		TP1S48_TB	77		
		TP1S5_TB	77		
		TP1S6_TB	77		