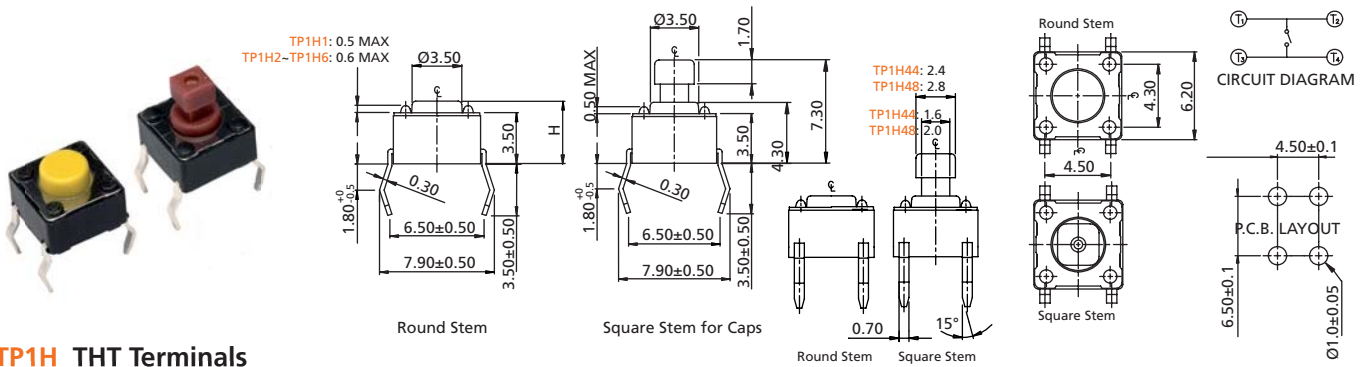


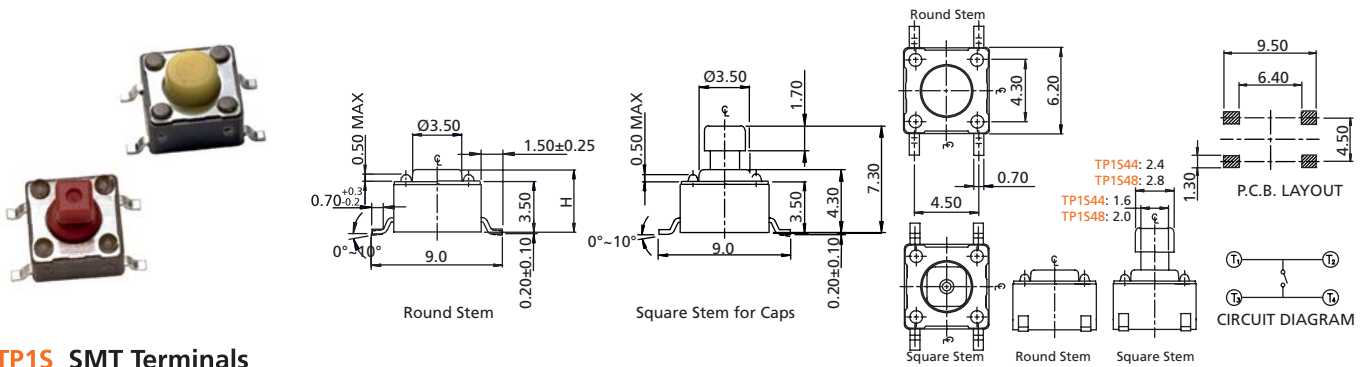
Tactile Switches

Standard 6 x 6 mm Tactile Switches

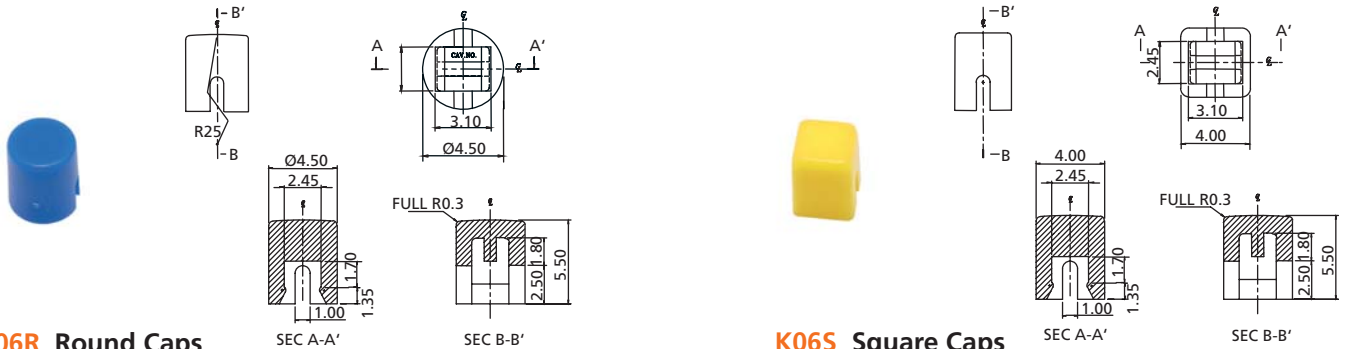
TP1 Series



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

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

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)

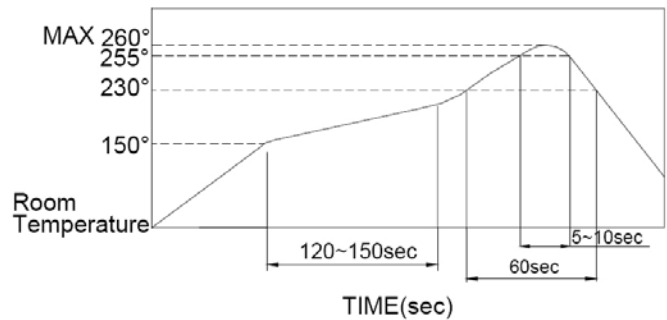
Hand soldering: Use a soldering iron of 30 watts controlled at 350°C approximately max 5 seconds while applying solder.

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		