

- Sharp click feel with a positive tactile feedback. Due to a small movement distance (stroke), user experiences distinct sensation when the switch “clicks” into place.

- Ultraminiature and light weight structure suitable for high density mounting. Economic but high reliability.

- Insert molding in the contact with special treatment prevents flux build-up during soldering and permits auto-dipping.

MATERIAL:

- Cover: Stainless steel.
- Base: UL94V-0 Nylon Thermoplastic.
- Stem: UL94V-0 Nylon Thermoplastic.
- Color: Black(199g), Brown(160gf), Red(260gf), Salmon(320gf), Yellow(520gf).
- Contact Disc: Stainless with silver cladding.
- Terminal: Brass with silver plated.

SPECIFICATION

MECHANICAL

- Operation Force:
 - 520 ± 130gf Yellow (Y)
 - 320 ± 80gf Salmon (S)
 - 260 ± 50gf Red (R)
 - 250 ± 50gf Black (K250)
 - 160 ± 50gf Brown (N)
 - 160 ± 50gf Black (K160)
 - 100 ± 50gf Black (K)
- Stop Strength:
 - Max 3kgf vertical static load continuously for 15 seconds
- Stroke: (6x6) 0.25 +0.2mm -0.1mm
(12x12) 0.35 ± 0.1mm
- Operation Temperature Range: -25°C to +70°C
- Storage Temperature Range: -30°C to +80°C
- Vibration Test: MIL-STFD-202F METHOD 201A.
 - Frequency: 10-55-10Hz/1 minute
 - Directions: X,Y,Z, three mutually perpendicular directions.
 - Time: 2 hours each direction.
 - High reliability.
- Shock Test: MIL-STD-202F METHOD 213B CONDITION A.
 - Gravity: 50G (peak value), 11 msec
 - Direction and times: 6 sides and 3 times in each direction.
 - High reliability.

ELECTRICAL

- Rating: 50mA, 12VDC.
- Contact Resistance: 100mΩ max.
- Insulation Resistance: 100Ωmin. at 500VDC.
- Dielectric Strength: 250VAC/1 minute.
- Contact Arrangement 1 pole 1 throw

(6 x 6)

- Electrical Life: 300 000 cycles for 320gf, 520gf
500 000 cycles for 260gf
1 000 000 cycles for 100gf, 160gf

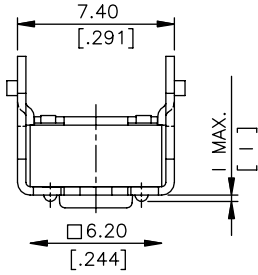
(12 x 12)

- Electrical Life: 100 000 cycles for 320gf
100 000 cycles for 260gf
200 000 cycles for 160gf

Packaging:

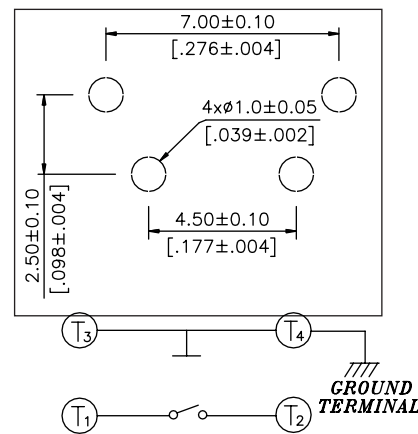
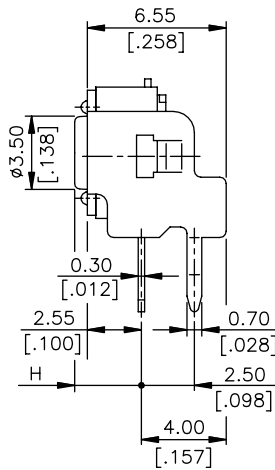
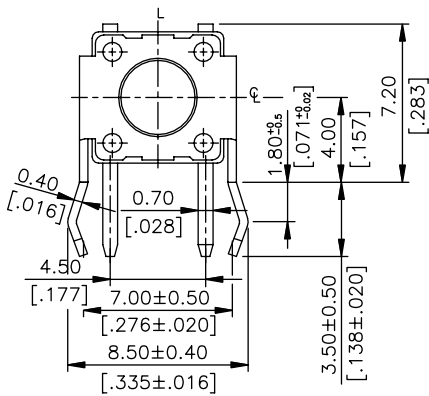
Part Number	Number per bag
STSA-6	500
STSG-6	1000
STSG-2	500

STSA-6 (Round)

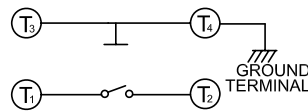
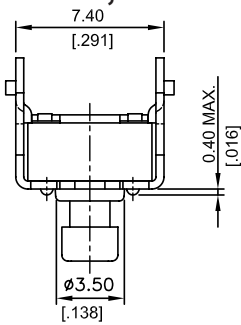


STSA-6□6	11.85[.467]
STSA-6□5	8.35[.329]
STSA-6□3	5.85[.230]
STSA-6□2	3.85[.152]
STSA-6□1	3.15[.124]
Prod. No.	H

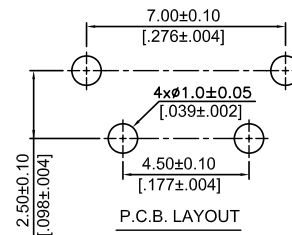
STSA 6□2 6□6	0.4 Max	.016 Max
STSA 6□1	0.3 Max	.012 Max
Prod. No.	I	Inches



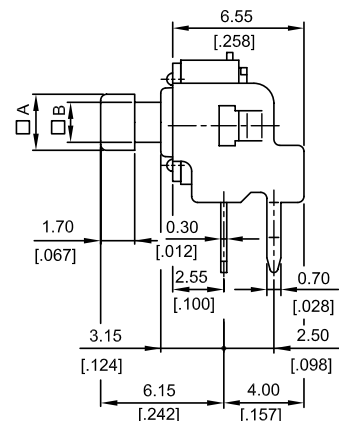
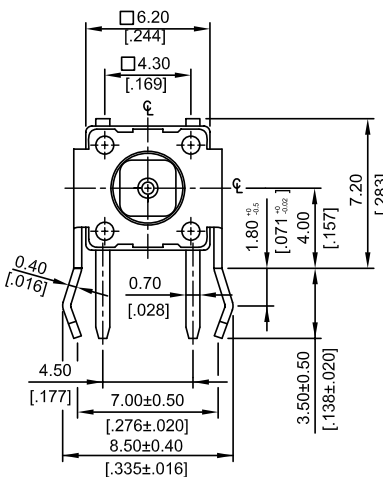
STSA-6□44, STSA-6□48 (Square)



CIRCUIT DIAGRAM

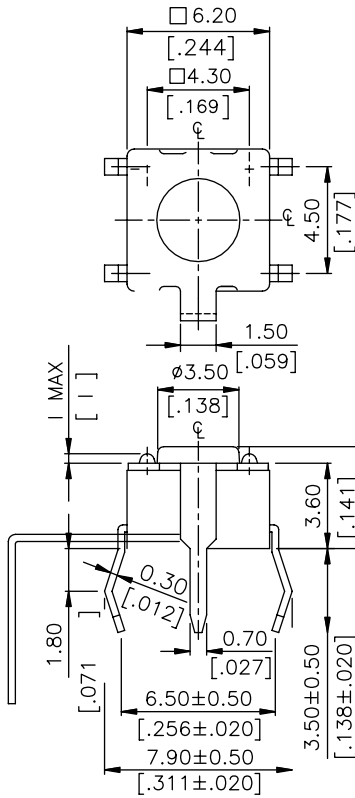


P.C.B. LAYOUT



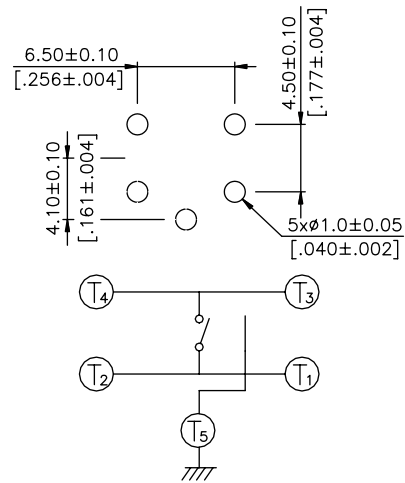
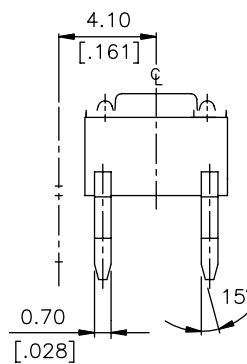
STSA-6□44	6.15[.242]	A=2.4[.095] B=1.6[.063]
STSA-6□48	6.15[.242]	A=2.8[.110] B=2.0[0.79]
Prod. No.	H	A & B

STSG-6 (Round)

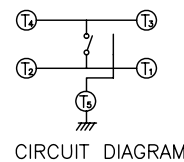
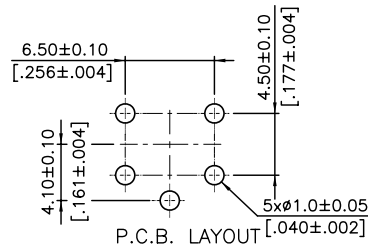
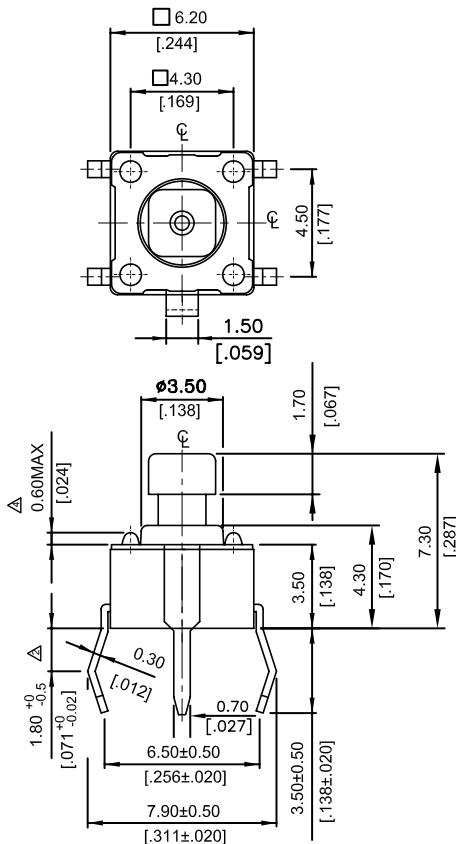


STSG-6□6	13.0[.512]
STSG-6□5	9.5[.374]
STSG-6□3	7.0[.275]
STSG-6□2	5.0[.197]
STSG-6□1	4.3[.169]
Prod. No.	H

STSG 6□2 6□6	0.5 Max	.0196 Max
STSG 6□1	0.4 Max	.016 Max
Prod. No.	I	Inches

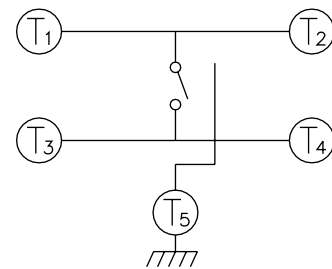
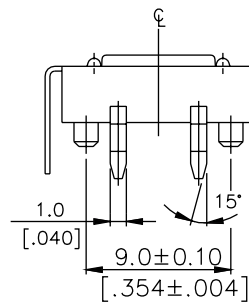
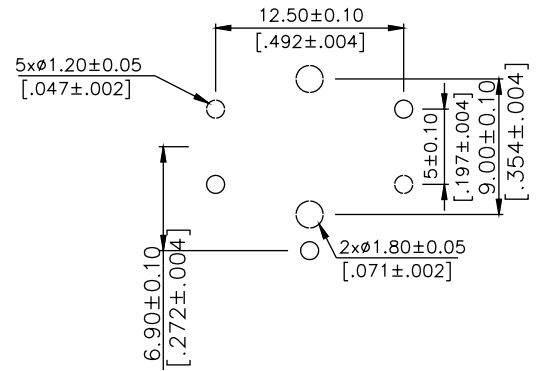
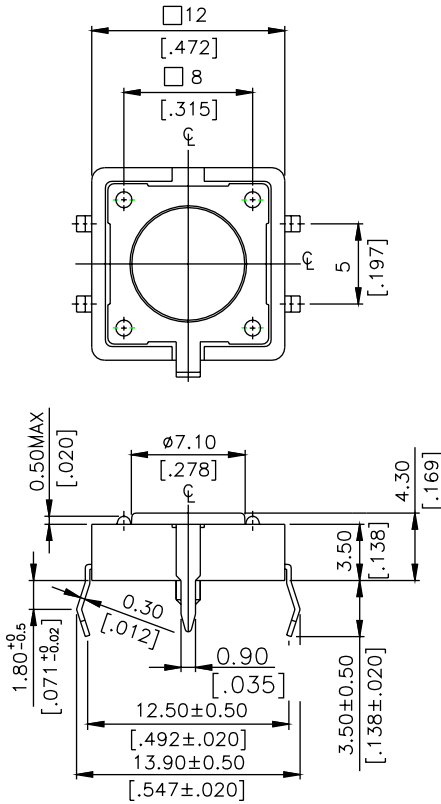


STSG -6□44, STSG -6□48 (Square)

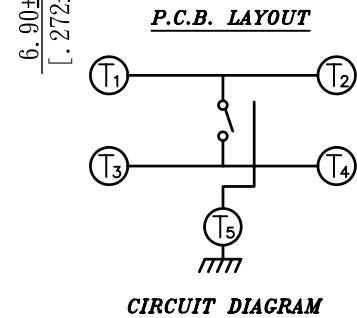
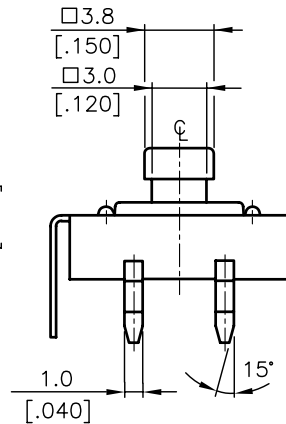
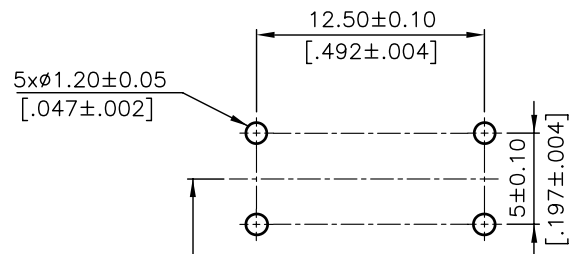
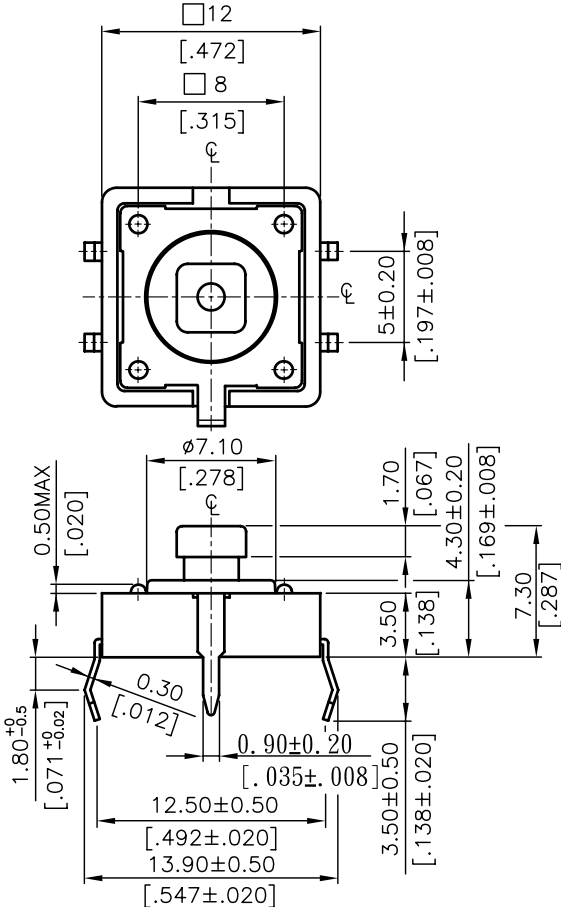


STSG-6□44	7.3[.287]	A=2.4[.095] B=1.6[.063]
STSG-6□48	7.3[.287]	A=2.8[.110] B=2.0[.079]
Prod. No.	H	A & B

STSG(P) -2 (Round)



STSG -2 4 (Square)



HOW TO ORDER:

STS□ □ - □ □ - □ □

Soldering
R= Lead Free

Dimension H:

STSA-6

1 =3.15mm
2 =3.85mm
3 =5.85mm
44 =6.15mm(SQx2.4mm)
48 =6.15mm(SQx2.8mm)
5 =8.35mm
6 =11.85mm

STSG-6

1 =4.3mm
2 =5.0mm
3 =7.0mm
44 =7.3mm(SQx2.4mm)
48 =7.3mm(SQx2.8mm)
5 =9.5mm
6 =13.0mm

STSG(P)-2

1 =4.3mm
4 =7.3mm(SQx3.8mm)
5 =8.5mm

Cover of Stem for Operating Force:

K = Black, 100gf, (Not available in 12x12)
K160 = Black, 160gf
K250 = Black, 250gf
N = Brown, 160gf
R = Red, 260gf
S = Salmon, 320gf
Y = Yellow, 520gf, (Not available in 12x12)

Prod Size:

6 = 6 x 6 mm
2 = 12 x 12 mm

□ = No Post

P = With Post (For 12x12mm only)

STSA = Right Angle Type Tactile Switch

STSG = With Ground Terminal Type Tactile Switch

Soldering Process

▲ Hand Soldering : Use a soldering iron of 30 watts, controlled at 350°C approx. 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