

FEATURES:

- 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:

- (6x6)
- Cover: Stainless steel (for STSM-6)
Nickel Silver (for STSMG-6)
 - Base: UL94V-0 Nylon High Temp. Thermoplastic.
 - Stem: UL94V-0 Nylon High Temp. Thermoplastic.
Color: Brown(160gf), Red(260gf),
Salmon(320gf), Yellow(520gf),
Black(100gf)
 - Contact Disc: Phosphor Bronze with silver cladding.
Stainless Steel (V-Option)
 - Terminal: Brass with silver plated.
- (12x12)
- Cover: Stainless steel (for STSM-2)
 - Base: UL94V-0 Nylon High Temp. Thermoplastic.
 - Stem: UL94V-0 Nylon High Temp. Thermoplastic.
Color: Brown(160gf), Red(260gf),
Salmon(320gf)
 - Contact Disc: Phosphor Bronze with silver cladding.
 - Terminal: Brass with silver plated.

SPECIFICATION

MECHANICAL

- Operation Force:
 - 520 ± 130gf Yellow (Y)
 - 320 ± 80gf Salmon (S)
 - 260 ± 50gf Red (R)
 - 160 ± 50gf Brown (N)
 - 100 ± 50gf Black (K)
- Stroke: (6x6) 0.25 + 0.2mm/-0.1 mm
(12x12) 0.35 ± 0.1mm
- Operation Temperature Range: -25°C to +70°C
- Storage Temperature Range: -30°C to +80°C
- Vibration Test: MIL-STD-202F METHOD 201A.
- Frequency: 10-55-10Hz/1 minute
- Directions: X,Y,Z, three mutually perpendicular directions.
- Time: 2 hours each direction.
High reliability.

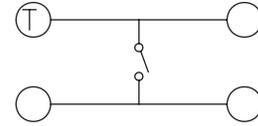
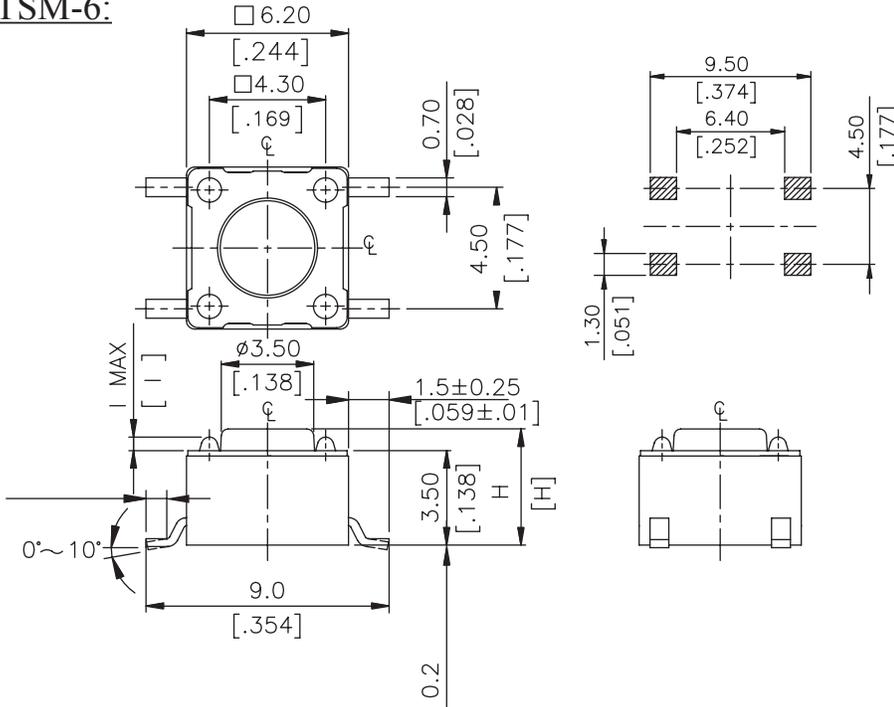
ELECTRICAL

- (6x6)
- Electrical Life: 300 000 cycles for 320gf, 520gf
500 000 cycles for 260gf
1 000 000 cycles for 100gf, 160gf
- (12x12)
- Electrical Life: 100 000 cycles for 320gf
100 000 cycles for 260gf
200 000 cycles for 100gf
 - Rating: 50mA, 12VDC.
 - Contact Resistance: 100mΩ max.
 - Insulation Resistance: 100Ωmin. at 500VDC.
 - Dielectric Strength: 250CVAC/1 minute.
 - Contact Arrangement 1 pole 1 throw

Packaging:

STSM-6 series: 77pcs/tube, STSM-2 series: 40pcs/tube
STSM-6□1: 1000 pcs/reel, STSM-6□2: 900pcs/reel
STSM-6□3: 700pcs/reel, STSM-6□4/6□48: 500pcs/reel
STSM-6□5: 380 pcs/reel, STSM-2□1: 700pcs/reel
STSM-2□4: 500pcs/reel, STSM-2□5: 400pcs/reel

STSM-6:



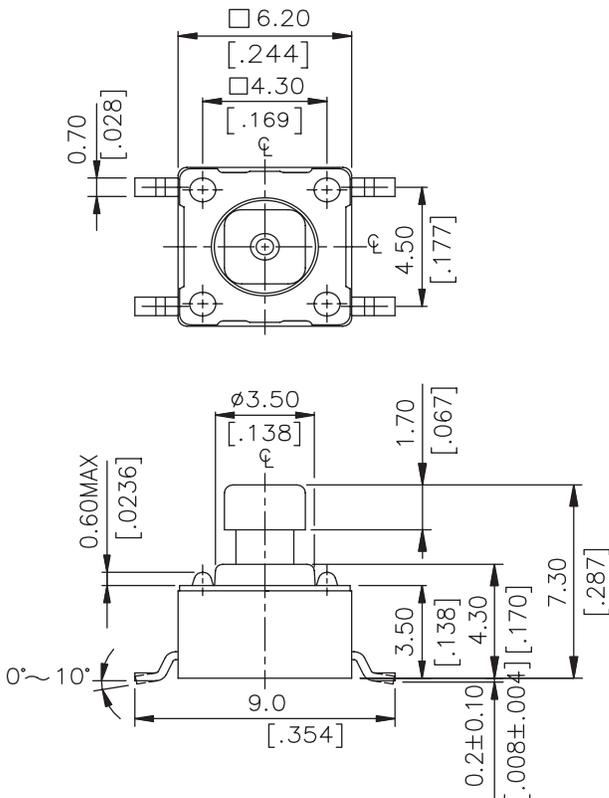
CIRCUIT DIAGRAM

STSM-6□6	13.0[.512]
STSM-6□5	9.5[.374]
STSM-6□3	7.0[.275]
STSM-6□7	6.0[.236]
STSM-6□2	5.0[.197]
STSM-6□1	4.3[.169]
Prod. No.	H

STSM-6□2~6□6	0.6 Max	.0236Max
STSM-6□1	0.5 Max	.0197MAX
Prod. No.	I	Inches

General Tolerance : ±0.2mm

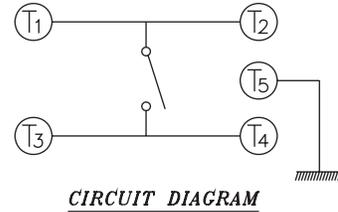
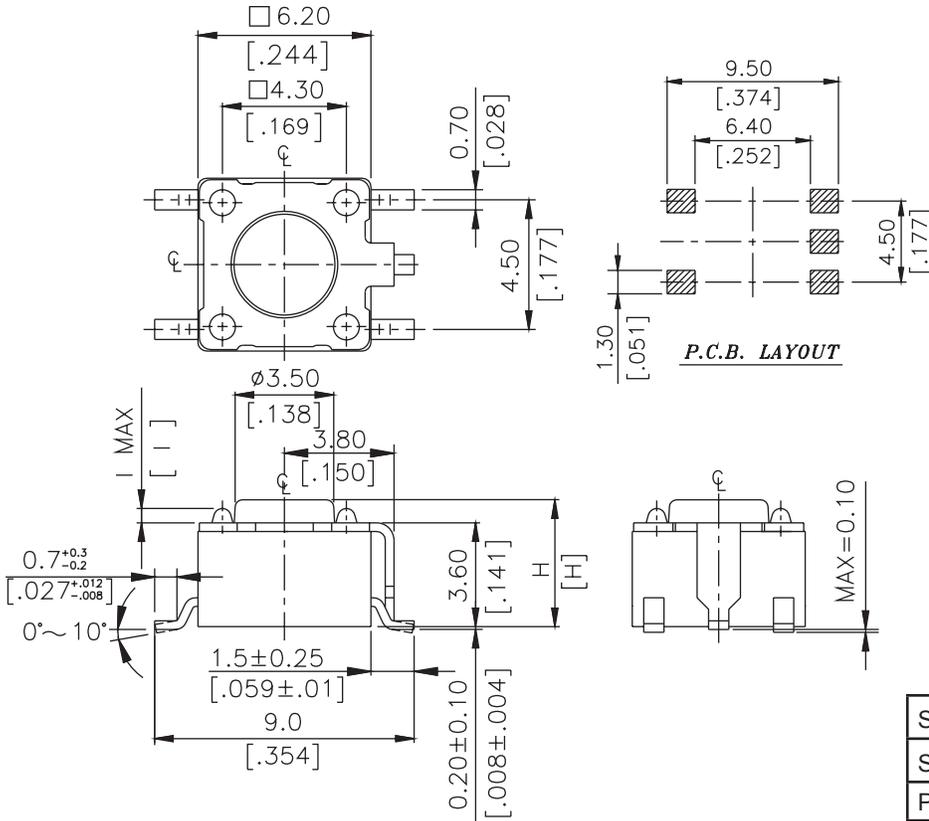
STSM-6□4:



STSM 6□44	A	2.4	[.095]
	B	1.6	[.063]
STSM 6□48	A	2.8	[.110]
	B	2.0	[.079]
Prod. No.	Loc.	mm.	Inch.

General Tolerance: ± 0.2mm

STSMG-6

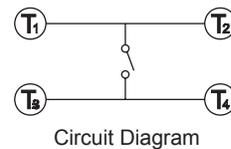
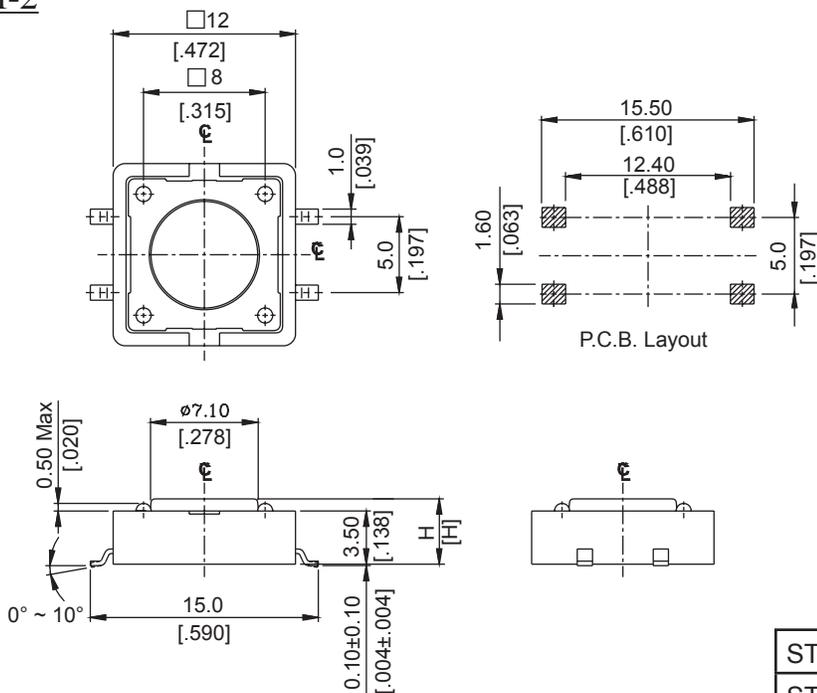


STSMG-6□6	13.0[.512]
STSMG-6□5	9.5[.374]
STSMG-6□3	7.0[.275]
STSMG-6□7	6.0[.236]
STSMG-6□2	5.0[.197]
STSMG-6□1	4.3[.169]
Prod. No.	H

STSMG-6□2~6□7	0.5 MAX	.02 MAX
STSMG-6□1	0.4 MAX	.016 MAX
Prod. No.	I	Inches

General Tolerance : $\pm 0.2\text{mm}$

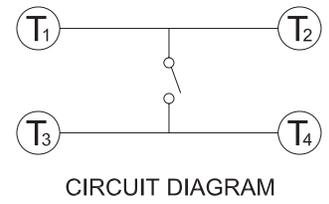
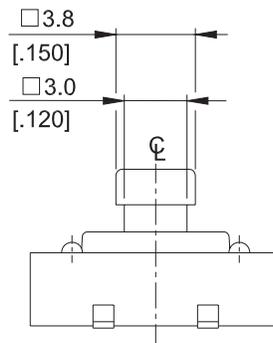
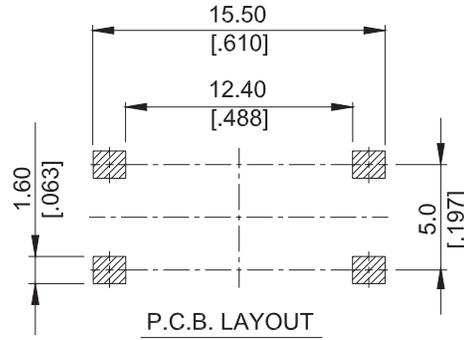
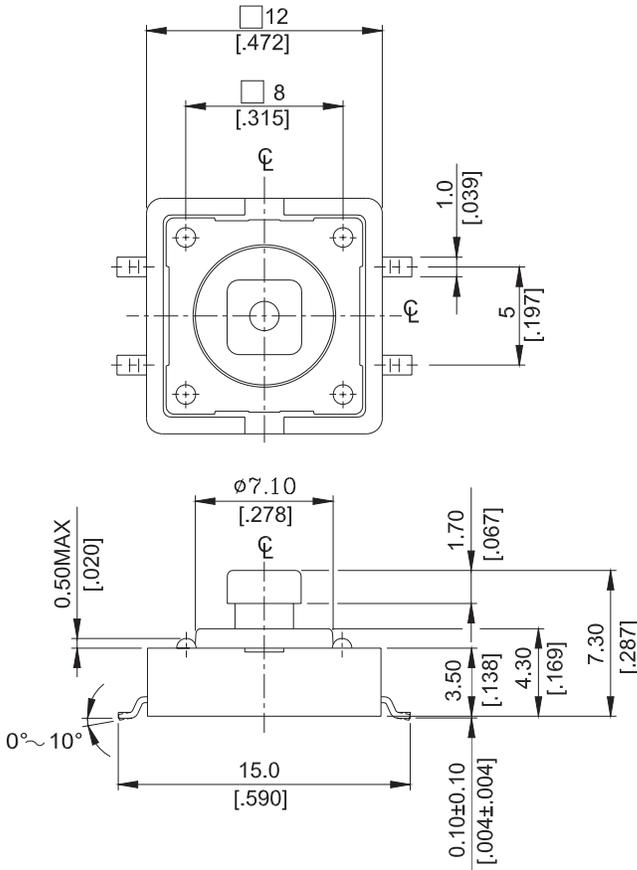
STSM-2



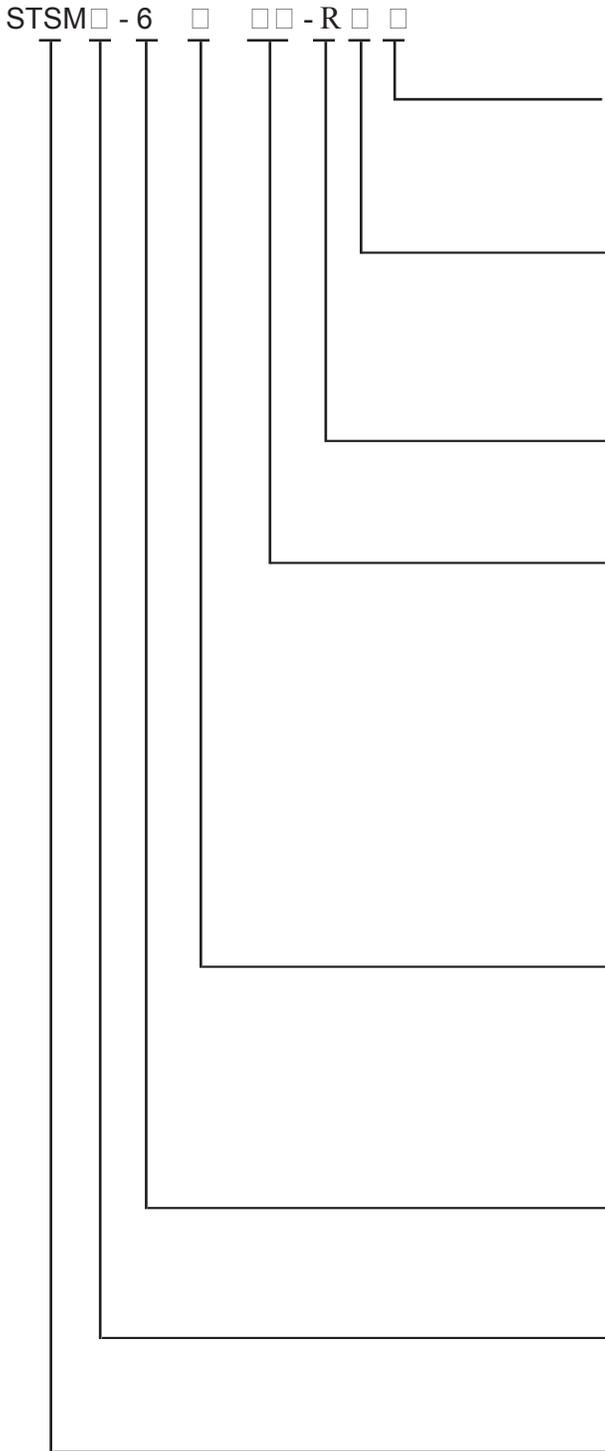
STSM-2□5	8.5[.335]
STSM-2□1	4.6[.169]
Part No.	H

General Tolerance : $\pm 0.2\text{mm}$

STSM-2□4



How to Order



□ = Phosphor Bronze Dome
S = Stainless Steel Dome

Package style:
B = Tube
T/R = Tape & Reel
<Except STSM-6□6>

Soldering:
R = Lead Free Solderable

Dimension H:
1 = 4.3mm
2 = 5.0mm
7 = 6.0mm (Brown-160gf or Red-260gf only)
3 = 7.0mm
44 = 7.3mm(SQ)x2.4mm
48 = 7.3mm(SQ)x2.8mm
5 = 9.5mm
6 = 13mm

Color of Stem for Operation Force:
K = Black, 100gf
N = Brown, 160gf
R = Red, 260gf
S = Salmon, 320gf
Y = Yellow, 520gf

Prod Size:
6 = 6x6mm

□ = Without Ground Terminal
G = S.M.T & Ground Terminal

Surface-Mounting Type Tactile Switch
(Non-Washable)

STSM 2 □ □ - □ □ □

□ = Phosphor Bronze Dome
S = Stainless Steel Dome
(12x12 K,S,Y Unavailable)

Package Style:

B = Tube

T/R = Tape and Reel

Soldering:

R = Lead Free Solderable

Dimension H:

1 = 4.3mm

4 = 7.3mm (SQ)X3.8mm

5 = 8.5mm

Color of Stem for Operating Force:

N = Brown, 160gf

R = Red, 260gf

S = Salmon, 320gf

Prod Size

2 = 12x12mm

Surface-Mounting Type Tactile Switch
(Non Washable)

Soldering Process

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

△ Temperature Profile:

