DIPTRONICS MANUFACTURING INC.

Speed & Technique

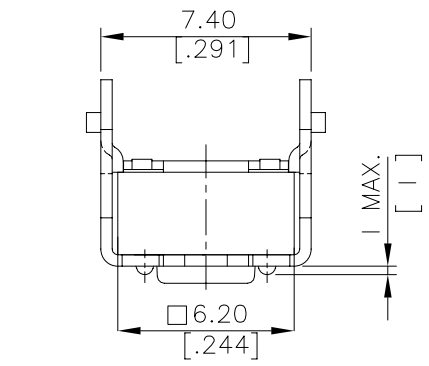
# DTSA-6,DTSG-6(2) SERIES

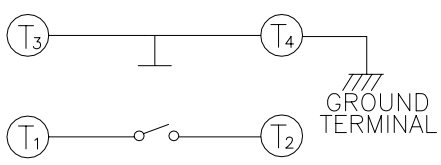
LEAD FREE

RoHS Compliant

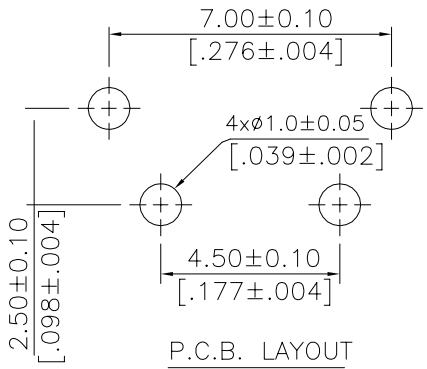
## DIMENSIONS

### DTSA-6

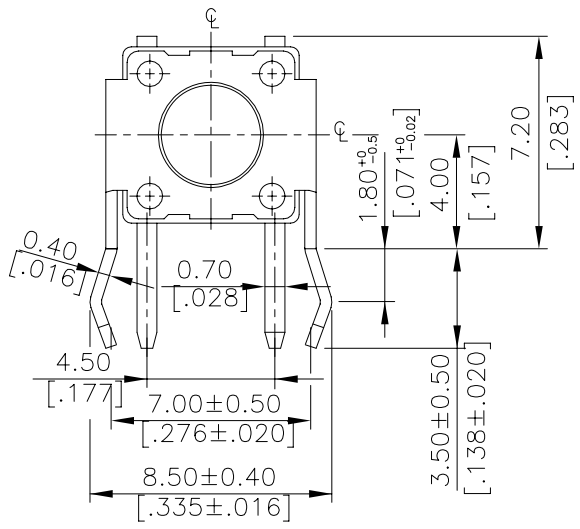


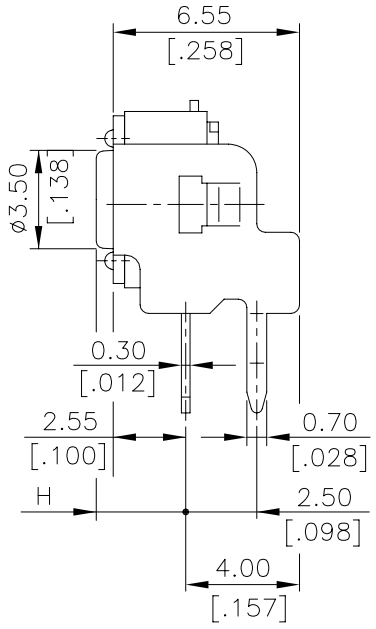




CIRCUIT DIAGRAM




P.C.B. LAYOUT



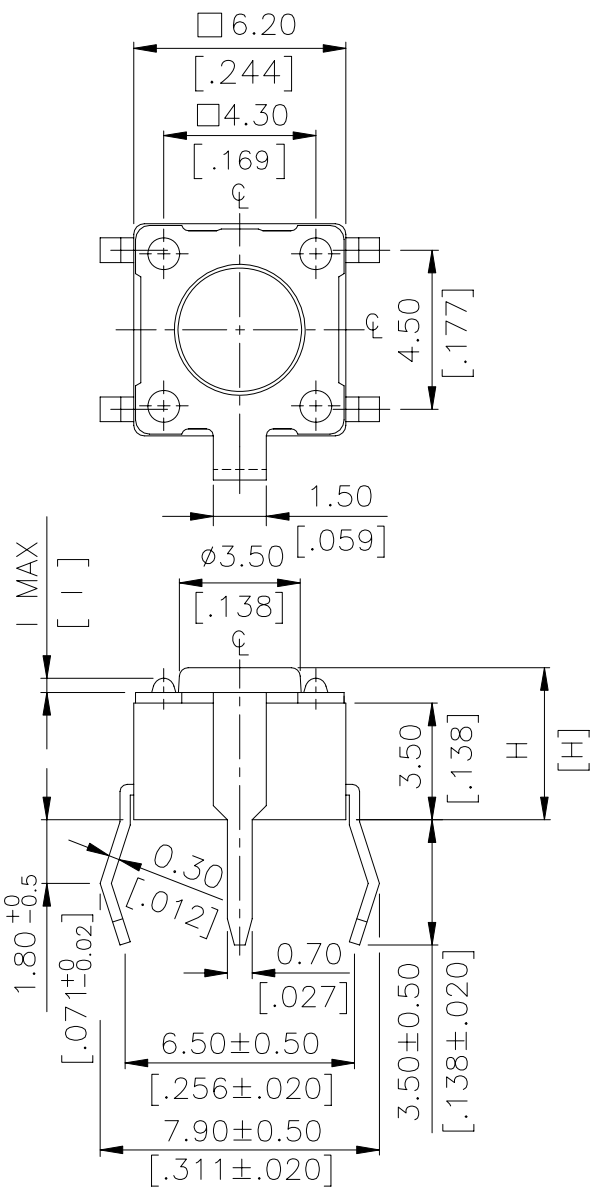



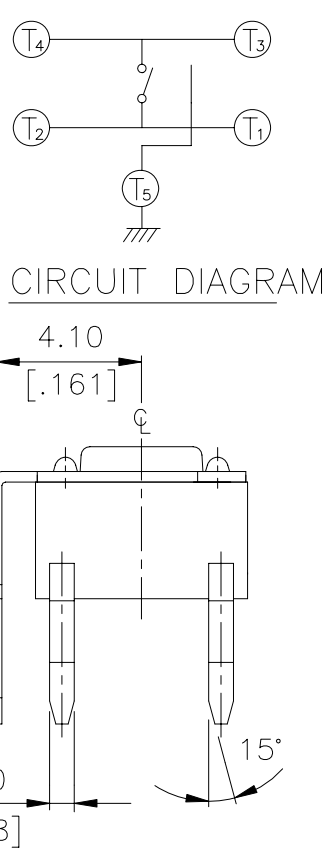

| | | |
|---|---|---|
| DTSA−62~66□ −V | 0.4 MAX | .016 MAX |
| DTSA−61 □−V | 0.3 MAX | .012 MAX |
| PROD. NO. | I | INCHES. |

| | |
|---|---|
| DTSA−66□ −V | 11.85[.467] |
| DTSA−65□ −V | 8.35[.329] |
| DTSA−63□ −V | 5.85[.230] |
| DTSA−62□ −V | 3.85[.152] |
| DTSA−61□ −V | 3.15[.124] |
| PROD. NO. | H |

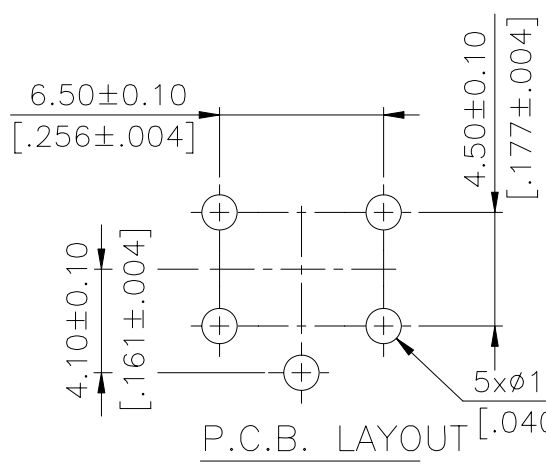
General Tolerance：±0.2mm

### DTSG-6




CIRCUIT DIAGRAM



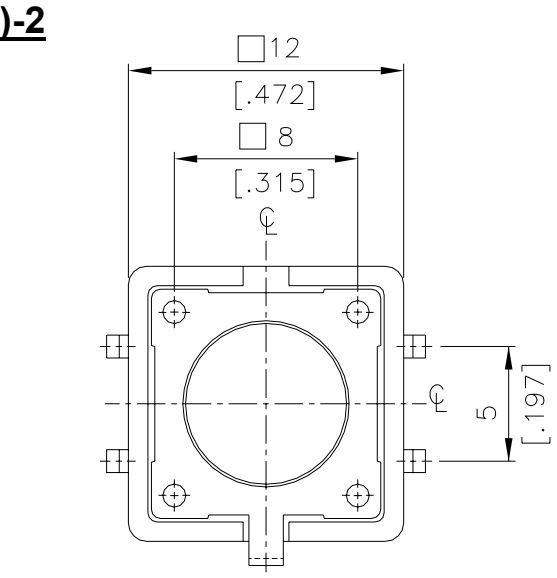

P.C.B. LAYOUT

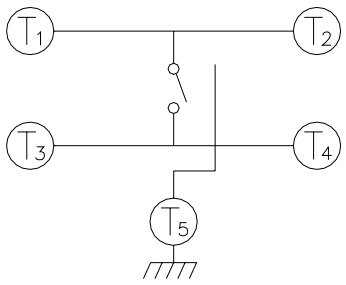
| | | |
|---|---|---|
| DTSG−62~66 □−V | 0.5 MAX | .0196 MAX |
| DTSG−61 □−V | 0.4 MAX | .016 MAX |
| PROD. NO. | I | INCHES. |

| | |
|---|---|
| DTSG−66□−V | 13.0[.512] |
| DTSG−65□−V | 9.5 [.374] |
| DTSG−63□−V | 7.0 [.275] |
| DTSG−62□−V | 5.0 [.197] |
| DTSG−61□−V | 4.3 [.169] |
| PROD. NO. | H |

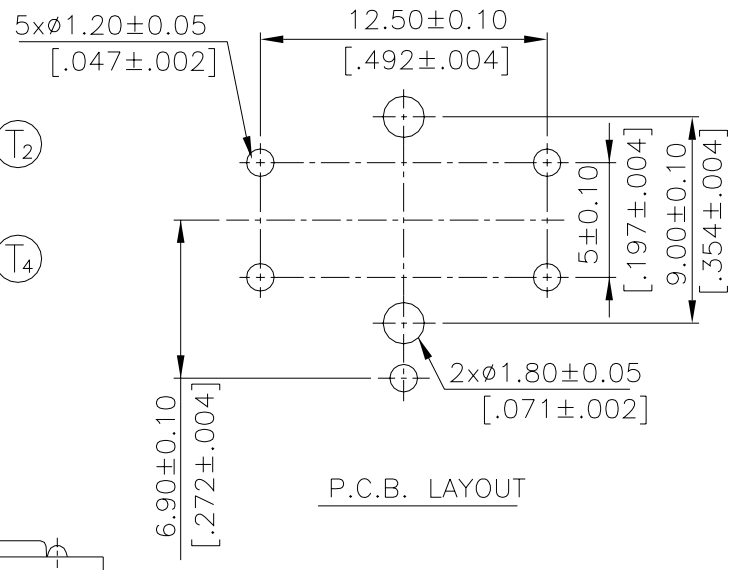
General Tolerance：±0.2mm

## DTSG(P)-2

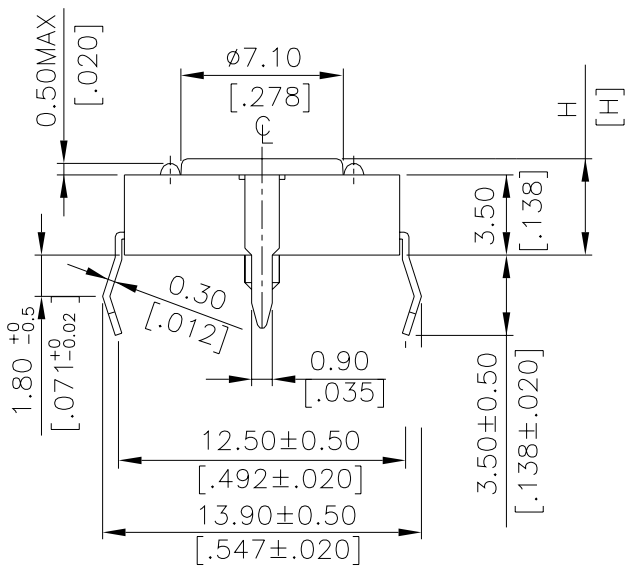


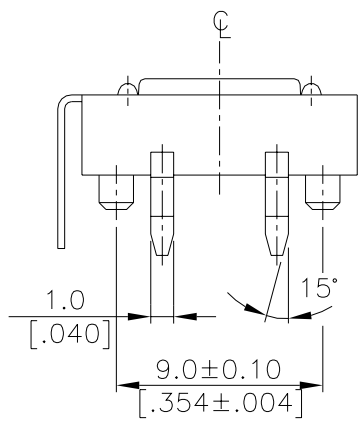




CIRCUIT DIAGRAM




P.C.B. LAYOUT




| | |
|---|---|
| DTSGP-25□-V | 8.5[.335] |
| DTSGP-21□-V | 4.3[.169] |
| PROD. NO. | H |

General Tolerance：±0.2mm

# HOW TO ORDER

**DTS □ □ - □ □ □ - □ - □**

**Soldering**
**V=Lead Free Solderable**
**□=Dome Phosphor bronze**
**(*S = Dome Stainless steel**
**(*12x12 K、S、Y Unavailable)**

**Cover of Stem For Operatin Force:**
**▲K = Black, 100gf**
**N = Brown, 160gf**
**R = Red, 260gf**
**S = Salmon, 320gf**
**▲Y = Yellow, 520gf**
**<▲12x12, K,Y Unavailable>**

**Dimension H:**

| Code | DTSA-6 | DTSG-6 | DTSG(P)-2 | |
|---|---|---|---|---|
| | 1 = 3.15mm | 4.3mm | 1= 4.3mm | |
| | 2 = 3.85mm | 5.0mm | 4= 7.3mm | (SQ.)X3.8mm |
| | 3 = 5.85mm | 7.0mm | 5= 8.5mm | |
| ▲(SQ.)x2.4mm | 44 = 6.15mm | 7.3mm | | |
| (SQ.)X2.8mm | 48 = 6.15mm | 7.3mm | | |
| | 5 = 8.35mm | 9.5mm | | |
| | 6 = 11.85mm | 13.0mm | | |

**Prod. Size:**
**6 = 6 x 6 mm**
**2 = 12 x 12 mm (12x12 only for DTSG)**

**□ = None Post**
**P = With Post ( For 12x12mm only)**

**DTSA = Right Angle Type Tactile Switch**
**DTSG = With Ground Terminal Type Tactile Switch**

## SPECIFICATION

△MECHANICAL

520 ± 130gf Yellow (Y)
320 ± 80gf Salmon (S)
Operation Force: 260 ± 50gf Red (R)
160 ± 50gf Brown (N)
100 ± 50gf Black (K)

Stop Strength: Max. 3kgf vertical static load continuously for 15 seconds.

Stroke: (6x6) 0.25 + 0.2 mm / - 0.1mm
(12x12) 0.35 ± 0.10 mm

Operation Temperature: -25℃ to +70℃
Storage Temperature: -30℃ to +80℃

△ELECTRICAL

Electrical Life: （6X6）
300,000 cycles for 320gf, 520gf
500,000 cycles for 260gf
1,000,000 cycles for 100gf, 160gf

Electrical Life: （12X12）Dome Phosphor bronze
100,000 cycles for 320gf
100,000 cycles for 260gf
200,000 cycles for 160gf

Rating: 50mA , 12VDC
Contact Resistance: 100mΩ max.
Insulation Resistance: 100MΩ min. at 500VDC
Dielectric Strength: 250VAC/ minute
Contact Arrangement: SPST

## MATERIAL

△COVER: Steel, Tin plated
△BASE: UL94V-0, Nylon Thermoplastic
Color: Black
△STEM: UL94V-0 Nylon Thermoplastic
Color: Black (100gf), Brown (160gf)
Red (260gf), Salmon (320gf)
Yellow (520gf)
△CONTACT DISC：Phosphor bronze with silver cladding (Standard)
Stainless Steel(V-Option)
△TERMINAL: Brass with silver plated

(12x12) Dome Stainless Steel
Electrical Life: 500,000 cycles for 260gf
1,000,000 cycles for 160gf

## SOLDERING PROCESS

△WAVE SOLDERING : Recommended solder temperature at 500℉（260℃）max. 5 seconds subject to PCB 1.6mm thickness（For through hole type）

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

## PACKING

| Part Number | Number Per Bag | |
|---|---|---|
| DTSA-6 | 500 | |
| DTSG-6 | 1000 | |
| DTSG-2 | 500 | |