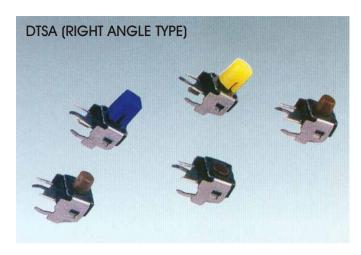
# .DTSA (RIGHT ANGLE) & DTSG(P) (GROUND TERMINAL) **SERIES(OR SQUARE HEAD WITH CAP):** MECHANICAL CONTACT STYLE





### **FEATURES**

- 1. Available sharp click feel with a positive tactile feedback. Due to small movement distance (stroke), user experiences distinct sensation when the switch "clicks" into place.
- 2. Ultraminiature and light weight structure suitable for high density mounting. Economic but high reliability.
- 3.Insert molding in the contact with special treatment prevents flux build-up during soldering and permits auto-dipping.

## **MATERIALS**

- COVER: Steel, Tin plated
- BASE: UL94V-0 Nylon Thermoplastic.

Color: Black.

- STEM: UL94V-0 Nylon Thermoplastic.

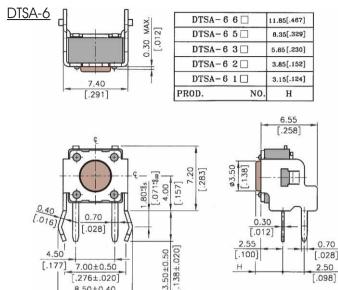
Color: Black(100gf), Brown(160gf),

Red(260gf), Salmon(320gf),

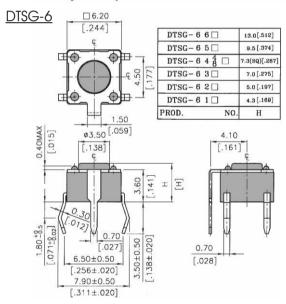
Yellow(520gf).

- CONTACT DISC: Phosphor bronze with silver cladding.
- TERMINAL: Brass with silver cladding.
- CAP:Termoplastic ABS.

### **DIMENSIONS**

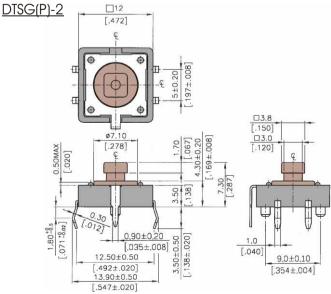


[.098]



[.276±.020]

8.50±0.40 [.335±.016]



General Tolerance:  $\pm 0.2$ mm( $\pm 0.008$ ")

### **SPECIFICATION**

#### **MECHANICAL**

520±130gf Yellow (Y)

320<u>+</u>80gf Salmon (S)

Operation Force: 260±50gf Red (R)

160<u>+</u>50gf Brown (N) 100+50gf Black (K)

Stop Strength: Place the switch such that vertical, a static load of 3 kgf shall be applied in the direction of stem operation for a period of 15 seconds

Stroke: (6x6)0.25 +0.2 mm

 $(12x12) 0.35 \pm 0.1$ mm

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.

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**

Electrical Life: 300,000 cycles for 320gf, 520gf.

500,000 cycles for 260gf.

1,000,000 cycles for 100gf, 160gf.

Rating: 50mA, 12VDC.

Contact Resistance: 100mR max.

Insulation Resistance: 100MR min. at 500VDC.

Dielectric Strength: 250VAC/1 minute. Contact Arrangement: 1 pole 1 throw.

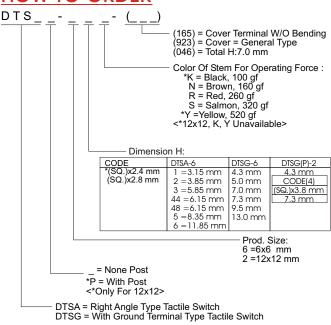
# **SOLDERING PROCESSES**

 WAVE SOLDERING: Recommended solder temperature at 500°F (260°C) max. 5 seconds subject to PCB 1.6mm thickness.

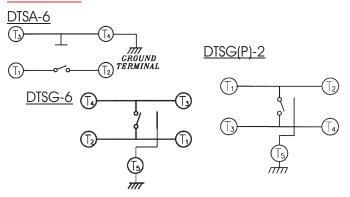
(For through hole type)

 HAND SOLDERING: Use a soldering iron of 30 watts, controlled at 608°F (320°C) approximately 2 seconds while applying solder.

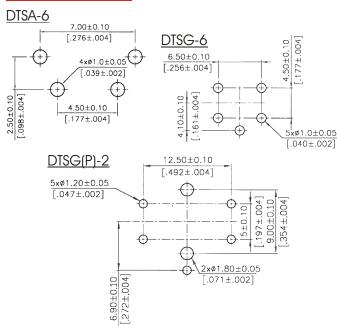
### **HOW TO ORDER**



### **CIRCUIT**



### P.C.B. LAYOUT



SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
\*MORE UPDATE INFORMATION,PLEASE CONSULT DIPTRONICS.