## TACT

 SWITCHDTSA (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),

$$
\begin{aligned}
& \text { Red }(260 \mathrm{gf}) \text {, Salmon(320gf), } \\
& \text { Yellow(520gf). }
\end{aligned}
$$

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


## DIMENSIONS



DTSG(P)-2


## SPECIFICATION

MECHANICAL

| $520 \pm 130 \mathrm{gf}$ | Yellow | $(\mathrm{Y})$ |
| :---: | :--- | :--- |
| $320 \pm 80 \mathrm{gf}$ | Salmon | $(\mathrm{S})$ |
| Operation Force: $260 \pm 50 \mathrm{gf}$ | Red | $(\mathrm{R})$ |
| $160 \pm 50 \mathrm{gf}$ | Brown | $(\mathrm{N})$ |
| $100 \pm 50 \mathrm{gf}$ | 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: $(6 \times 6) 0.25^{+}$
0.2 mm
(12x12) $0.35 \pm 0.1 \mathrm{~mm}$
Operation Temperature Range: $-25^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$
Storage Temperature Range: $-30^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$
Vibration Test: MIL-STD-202F METHOD 201A.
Frequency: $10-55-10 \mathrm{~Hz} / 1$ 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 320 gf , 520 gf .
500,000 cycles for 260 gf .
$1,000,000$ cycles for 100 gf , 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 $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$ max. 5 seconds subject to PCB 1.6 mm thickness. (For through hole type)
- HAND SOLDERING: Use a soldering iron of 30 watts, controlled at $608^{\circ} \mathrm{F}\left(320^{\circ} \mathrm{C}\right)$ approximately 2 seconds while applying solder.


DTSA-6

P.C.B. LAYOUT

DTSA-6


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

