## TPC Series Side Actuated Sealed Tact Switch

#### Features/Benefits

- Full SMD side actuated
- Haptic adaptability
- Pin in paste terminations
- Tape & reel
- IP67

### Typical Applications

- Automotive
- Industrial electronics
- Network equipment
- Telecommunications

## **Specification**

FUNCTION: momentary action

CONTACT ARRANGEMENT: 1 make contact = SPST, N.O. TERMINALS:

- 2 pin in paste signal terminals
- 3 SMD ground terminals

Silver	Gold
1 VA	0.2 VA
32 VDC	32 VDC
20 mV	20 mV
50 mA	10 mA
1 mA	0.1 mA
	1 VA 32 VDC 20 mV 50 mA

DIELECTRIC STRENGTH (50 Hz, 1 min.): ≥ 250 Vrms

CONTACT RESISTANCE:  $\leq$  100 m $\Omega$ 

INSULATION RESISTANCE (100 V, initial stage):  $> 10^{9} \Omega$ 

BOUNCE TIME: < 1 ms

## Mechanical

Туре	Force (N)	Operating Life (operations)	Travel (mm)
TPC-21120LFS	3.2 ± 1.0	300,000	0.7 ± 0.2
TPC-41110LFS	1.55 ± 0.45	300,000	0.7 ± 0.2

NOTE: Other configurations of haptics are available upon

MISUSE OVERLOAD: 40N with back support SHEAR FORCE: 10N without back support

**Environmental** Silver Gold

OPERATING TEMPERATURE: -40°C to 85°C -40°C to 125°C

STORAGE TEMPERATURE: -55°C to 85°C -55°C to 125°C

#### **Process**

SOLDERING: Depending on the application, this component is suited to the following methods:

- Cleaning according to typical washing processes.
- Lead free reflow soldering process in accordance with IEC 61760-1.

TERMINALS: pin in paste, silver or gold plated

TOP PLATE: tin plated

MSL level: 1

Vacuum pick head mandatory

## **Packaging**

In reels of 1000 pieces.

Dimensions of reels according to EIA RS481 or IEC 2863.

External diameter 380 mm ± 2 mm.

NOTE: This product is designed and manufactured for general electronic devices. For systems where reliability and safety are required, please contact your sales representative to secure product integration and function to secure usage.

#### **How To Order**

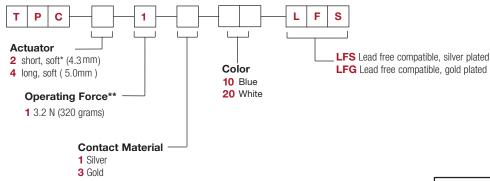
demand

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.

For any part number different from those listed above, please consult your local representative.

TPC2 version available upon demand

\* Force available upon demand (variant version)



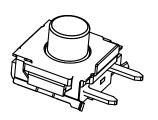


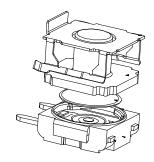


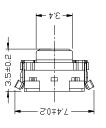
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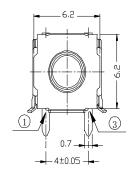
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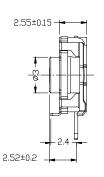




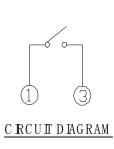


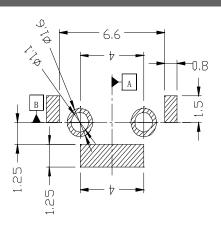






## **IMPORTANT NOTE FOR RT ACTUATOR**





PCB LAYOUT PIN IN PASTE TOP VIEW  Common signal must not be linked to the ground due to Actuator conductive EPDM raw material

This actuator is not compatible with grease even with restricted contact.

In case of the integration of an actuator or button by the customer, please consult us if use of plasticizer agent for button raw material (risk of chemical migration).

Our actuator contains carbon particles and is electrical conductive. In consequence, customer actuator must be electric insulating raw material.

Due to the cover raw material plating, small tin balls can appear after the reflow soldering process. These small tin balls are located near all cutting areas.



