

PTS810 Series

Microminiature SMT Top Actuated



Description

Control panels, keyless entry products and remote control devices all feature the PTS810 series microminiature SMT top actuated switches. Available in a thickness of 2.5mm with a 4.2 x 3.2mm footprint, the PTS810 is recognized by designers for being reliable and long-lasting in the face of constant use.

Features & Benefits

- 4.2 x 3.2 mm footprint
- 2.5 mm thickness
- Up to 150,000 operating cycles
- Color coded actuators

Applications

- Control panels
- Nomad devices
- Remote controls

Specifications

Function	Momentary action
Contact Arrangement	1 make contact = SPST NO
Terminals	J type for SMT

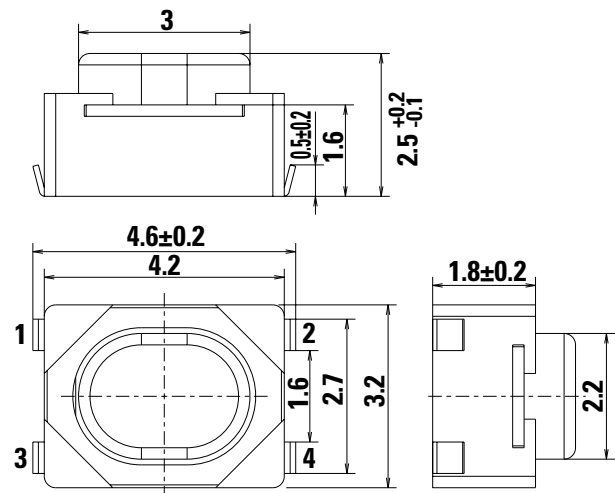
Electrical Characteristics

Max. Voltage	16 VDC
Max. Current DC	50 mA
Dielectric Strength	250 vA C (1mn)
Contact Resistance	≤ 500 mΩ
Insulation Resistance	≥ 100 MΩ
Bounce Time	≤ 10 ms

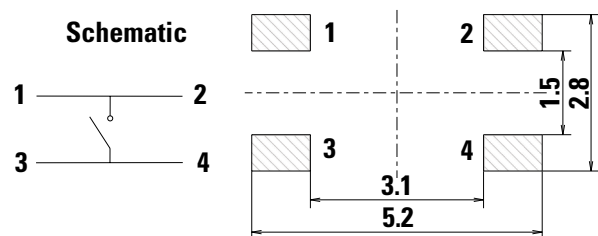
Environmental Characteristics

Operating Temperature	-40°C to 85°C
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Dimensions (mm)



Recommended PCB Layout

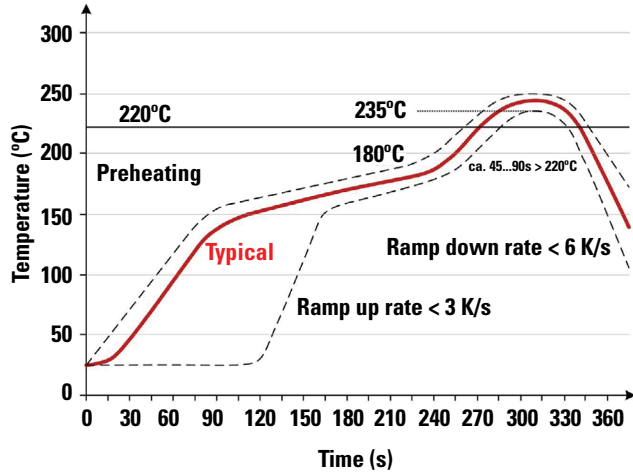


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Soldering Profile

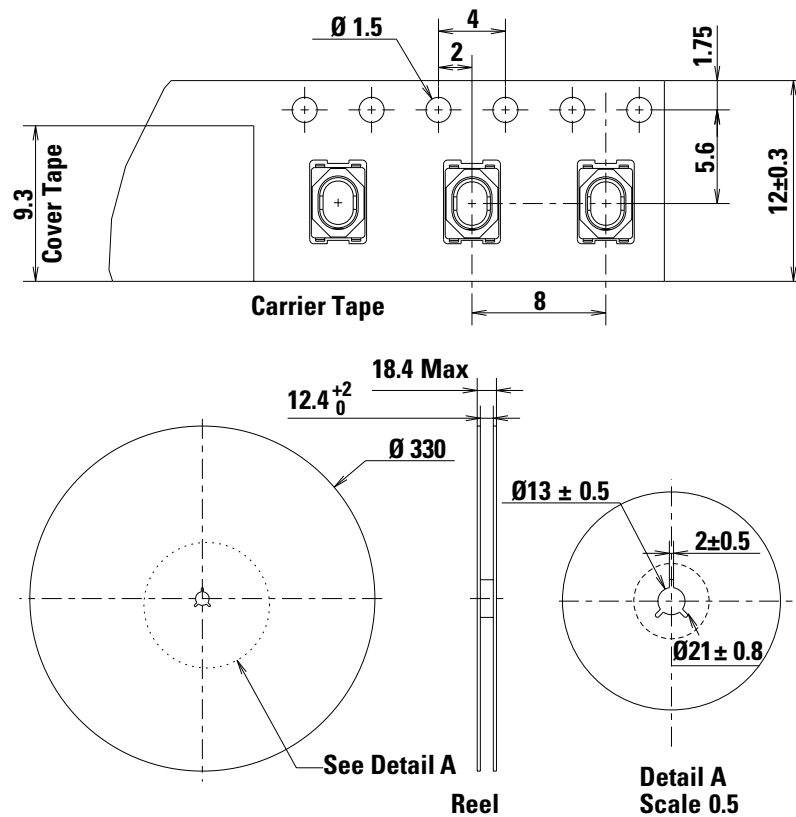


Soldering process: Depending on the application, this component is suited to the following methods:

- This component is suited to the following methods: Infrared Reflow Soldering in accordance with J-STD-020
- Terminals being silver or gold plated over a nickel barrier, the use of slightly activated flux is suitable.
- Lead free soldering process in accordance with the definition on the left.

Note: Up to 2 reflow cycles in accordance with the above temperature profile

Packaging Dimensions (mm)



Note: Switches in reels of 2,900 pieces. Dimensions of reels according to EIA 481B. External diameter 330 mm.

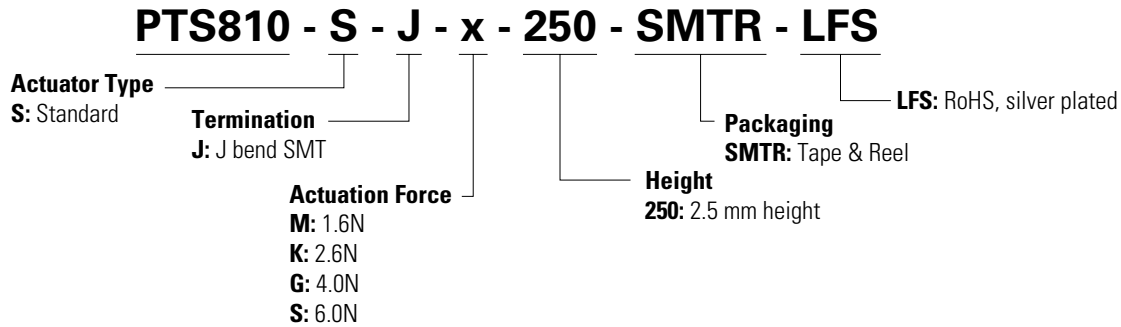
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Ordering Number

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.



Mechanical Characteristics

Supply Status	LITTELFUSE Orderable Part Number	Description	Contact & Terminals Plating	Terminals	Operating Force Fa (Newtons)	Operating Life (operations)	Electrical Travel (mm)	Product Height from PCB (mm)	Actuator Color
✓	Y97LT25B8DBFP	PTS810SJG250SMTR LFS	Silver	J-leads	4.0 +/- 1.0	100,000	0.20 ± 0.1	0.20 ± 0.1	Blue
✓	Y97LT25B5DBFP	PTS810SJK250SMTR LFS	Silver	J-leads	2.6 +/- 0.7	50,000	0.15 ± 0.1	0.15 ± 0.1	White
✓	Y97LT25B2DBFP	PTS810SJM250SMTR LFS	Silver	J-leads	1.6 +/- 0.5	150,000	0.15 ± 0.1	0.15 ± 0.1	Gray
✓	Y97LT25BADBFP	PTS810SJS250SMTR LFS	Silver	J-leads	6.0 +/- 1.5	150,000	0.20 ± 0.1	0.20 ± 0.1	Gray

Notes: Supply status: ✓ Available for ordering.

Liability Limitation

This datasheet does not provide enough information for applications that require a certain level of quality or safety such as automotive, medical systems, or safety equipment. Please contact customer service for the contractual specification package.

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