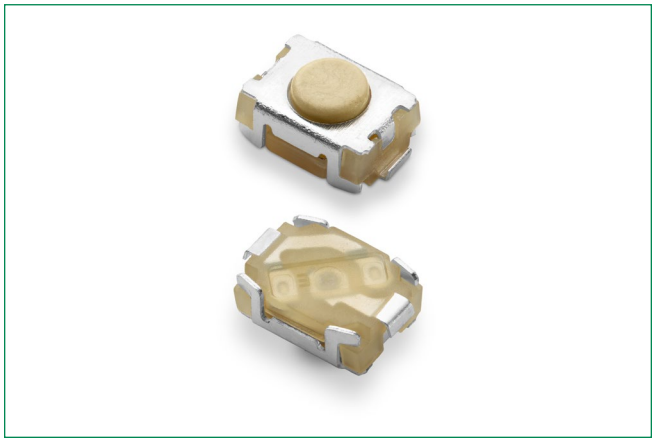
PTS820 Series
Microminiature SMT Top Actuated



Description

The PTS820 series of microminiature SMT top actuated switches have a 3.9 x 2.9mm footprint and feature the option for three different heights. When combined with a reputation for being long-lasting and reliable, these switches are perfect for any keyless entry, remote control or control panel application a designer can dream up.

Features & Benefits

- 3.9 x 2.9 mm footprint
- Three different heights
- High number of cycles
- Reduced footprint

Applications

- Control panels
- Nomad devices
- Remote controls
- Keyless entry system

Specifications

Function	Momentary action
Contact Arrangement	1 make contact = SPST NO
Terminals	J type for SMT
Travel	0.2mm + 0.1mm / -0.05 mm

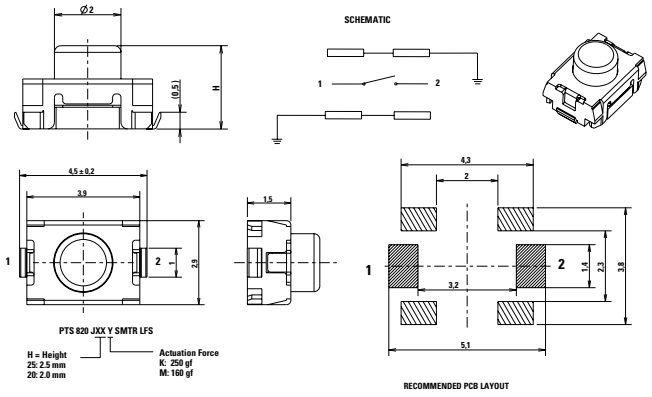
Electrical Characteristics

Max. Voltage	12 VDC
Max. Current DC	50 mA
Dielectric Strength	100 VA C (1mn)
Contact Resistance	≤ 100 mΩ
Insulation Resistance	≥ 100 MΩ
Bounce Time	≤ 10 ms

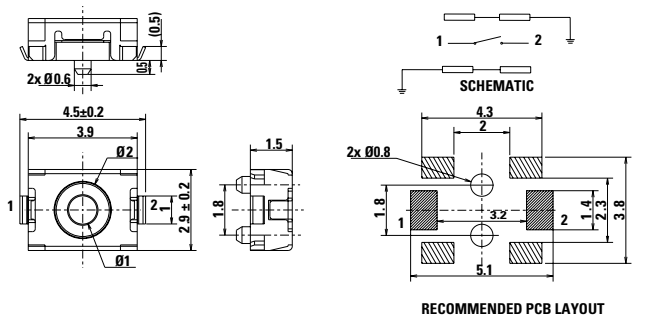
Environmental Characteristics

Operating Temperature	-40˚C to 85˚C

Dimensions (mm)



1.5 mm height (H) - version shown here with pegs

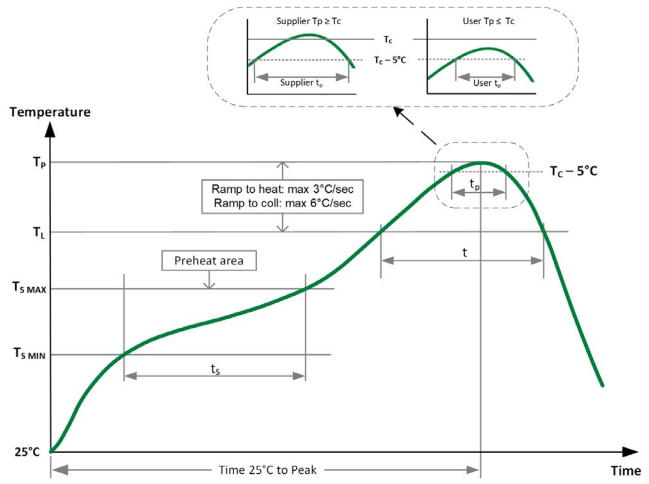


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PTS820 Series
Microminiature SMT Top Actuated

Soldering Profile

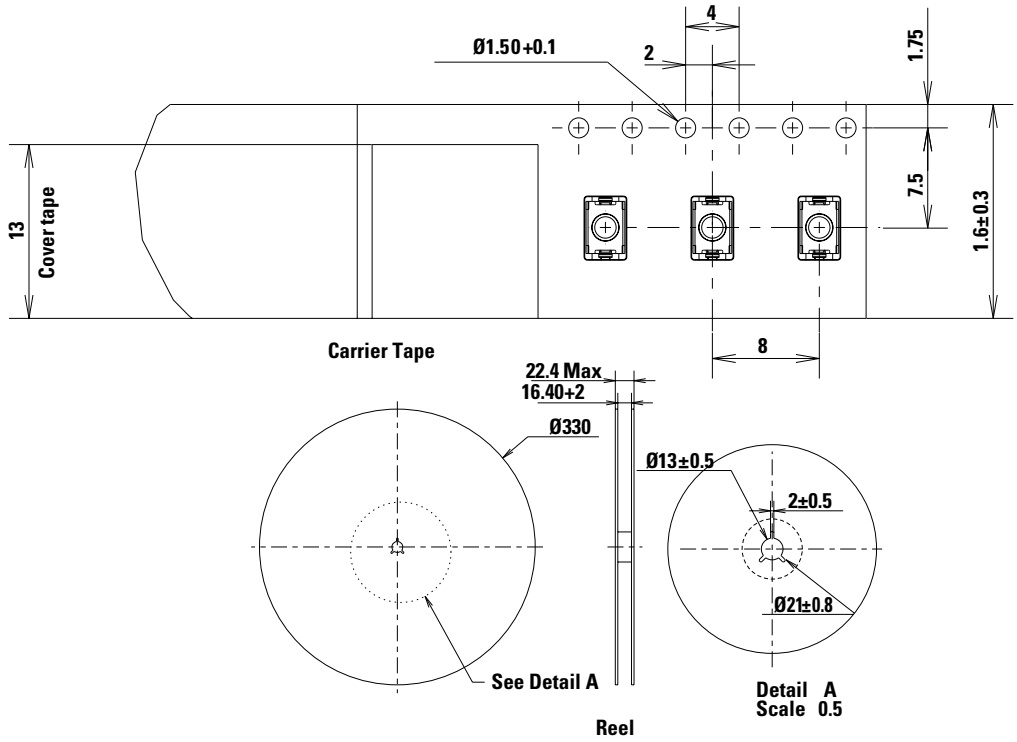


Reflow soldering conditions (Reference standard: IPC/JEDEC J-STD-020)

- Preheat---150°C-200°C, 60-120 sec
- Temperature---260°C Max. 10 sec
- Soldering area temperature---217°C, 60-150 sec

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

Packaging Dimensions (mm)



Note: Switches in reels of 2,300 pieces for 2.5mm height
Switches in reels of 2,500 pieces for 2.0 mm height
Switches in reels of 3,000 pieces for 1.5 mm height
Dimensions of reels according to EIA 481B.
External diameter 330 mm.

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PTS820 Series
Microminiature SMT Top Actuated

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.

PTS820 - J - x - x - x - SMTR - LFS

Actuator Type
J: J bend SMT

Height
15: 1.5 mm
20: 2.0 mm
25: 2.5 mm

Actuation Force
M: 1.6 N
K: 2.5 N

Pegs
P: with pegs
Void: no pegs

Packaging
SMTR: Tape & Reel

LFS: RoHS, silver plated

Mechanical Characteristics

Supply Status	LITTELFUSE Orderable Part Number	Description	Contact & Terminals Plating	Terminals	Pegs Option	Operating Force Fa (Newtons)	Operating Life (operations)	Travel (mm)	Product Height from PCB (mm)	Actuator Color
✓	Y97ST24B8QBFP	PTS820J15MPSMTR LFS	Silver	J-leadsT	Yes	1.6 +/- 0.5	200,000	0.2 +/-0.1	1.5	Black
✓	Y97MT16B2DBFP	PTS820J25MPSMTR LFS	Silver	J-leadsT	Yes	1.6 +/- 0.5	200,000	0.2 +/-0.1	2.5	Black
✓	Y97MT16B2MBFP	PTS820J20MPSMTR LFS	Silver	J-leadsT	Yes	1.6 +/- 0.5	200,000	0.2 +/-0.1	2	White
✓	Y97MT16B5CBFP	PTS820J15KPSMTR LFS	Silver	J-leadsT	Yes	2.5 +/- 0.5	100,000	0.2 +/-0.1	1.5	Nature
✓	Y97MT16B5DBFP	PTS820J25KPSMTR LFS	Silver	J-leadsT	Yes	2.5 +/- 0.5	100,000	0.2 +/-0.1	2.5	Blue
✓	Y97MT16B5MBFP	PTS820J20KPSMTR LFS	Silver	J-leadsT	Yes	2.5 +/- 0.5	100,000	0.2 +/-0.1	2	Blue
✓	Y97MT26B2CBFP	PTS820J15MSMTR LFS	Silver	J-leadsT	No	1.6 +/- 0.5	200,000	0.2 +/-0.1	1.5	Black
✓	Y97MT26B2DBFP	PTS820J25MSMTR LFS	Silver	J-leadsT	No	1.6 +/- 0.5	200,000	0.2 +/-0.1	2.5	Black
✓	Y97MT26B2MBFP	PTS820J20MSMTR LFS	Silver	J-leadsT	No	1.6 +/- 0.5	200,000	0.2 +/-0.1	2	White
✓	Y97MT26B5CBFP	PTS820J15KSMTR LFS	Silver	J-leadsT	No	2.5 +/- 0.5	100,000	0.2 +/-0.1	1.5	Nature
✓	Y97MT26B5DBFP	PTS820J25KSMTR LFS	Silver	J-leadsT	No	2.5 +/- 0.5	100,000	0.2 +/-0.1	2.5	Blue
✓	Y97MT26B5MBFP	PTS820J20KSMTR LFS	Silver	J-leadsT	No	2.5 +/- 0.5	100,000	0.2 +/-0.1	2	Blue

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 equipement. Please contact customer service for the contractual specification package.

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