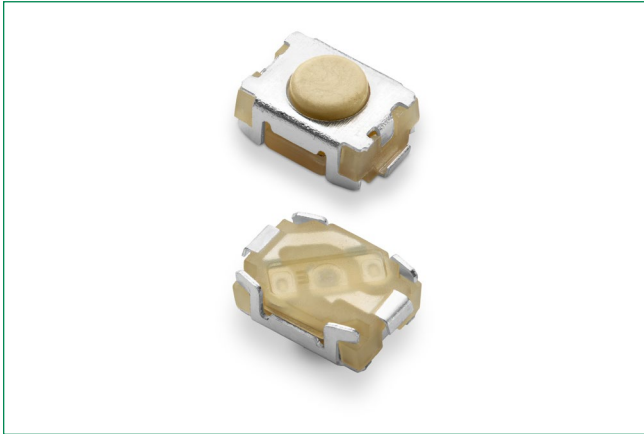


PTS820 Series

Microminiature SMT Top Actuated



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
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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.

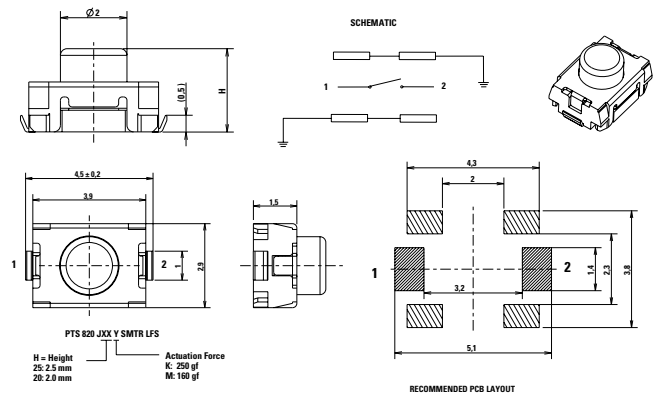
Features & Benefits

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

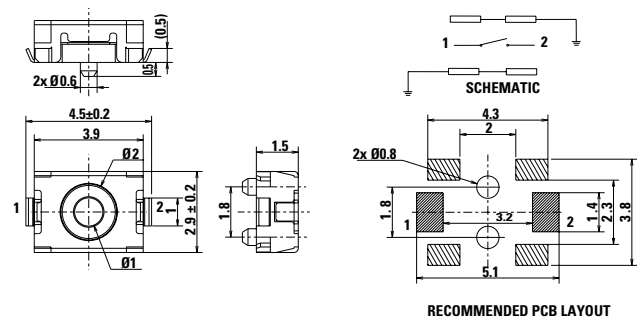
Applications

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

Dimensions (mm)



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



Soldering Profile



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

Technical drawing of a carrier tape for a reel, showing dimensions and details.

Carrier Tape Dimensions:

- Overall width: 13
- Overall length: 1.6 ± 0.3
- Component width: 4
- Component pitch: 2
- Component diameter: $\varnothing 1.50 \pm 0.1$
- Component height: 1.75
- Component spacing: 7.5
- Component diameter: $\varnothing 13 \pm 0.5$
- Component spacing: 8

Details:

- Detail A (Scale 0.5):** Shows a circular component with a diameter of $\varnothing 330$ and a central hole of $\varnothing 21 \pm 0.8$. The text "See Detail A" points to the central hole.
- Detail B (Scale 0.5):** Shows a circular component with a diameter of $\varnothing 13 \pm 0.5$ and a central hole of $\varnothing 21 \pm 0.8$. The text "Detail A Scale 0.5" points to the central hole.

Reel Dimensions:

- Overall width: 22.4 Max
- Overall length: 16.40 ± 2



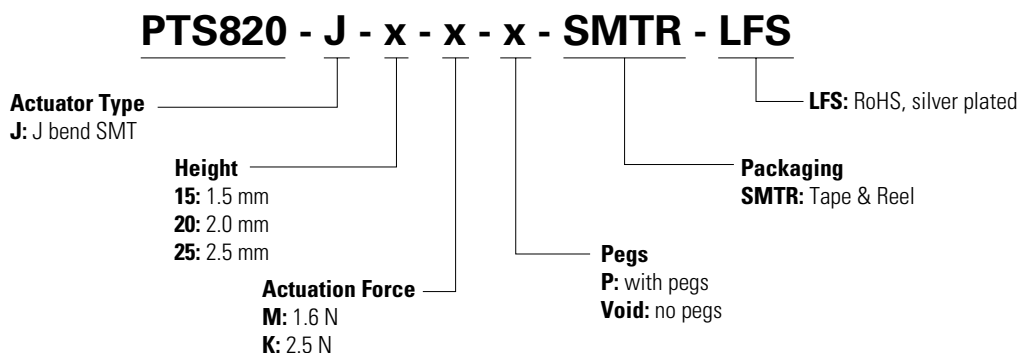
PTS820 Series

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.



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

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