

PTS 820 Series Microminiature SMT Top Actuated

Features/Benefits

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

Typical Applications

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



Specifications

FUNCTION: momentary action

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

TERMINALS: J type for SMT

TRAVEL: 0.2mm + 0.1mm / -0.05 mm

	Operating Force (gf)	Life Cycles	Height mm	Pegs
PTS820 J25M SMTR LFS	160 ± 50	200,000	2.5	No
PTS820 J25K SMTR LFS	250 ± 50	100,000	2.5	No
PTS820 J25MP SMTR LFS	160 ± 50	200,000	2.5	Yes
PTS820 J25KP SMTR LFS	250 ± 50	100,000	2.5	Yes
PTS820 J20M SMTR LFS	160 ± 50	200,000	2.0	No
PTS820 J20K SMTR LFS	250 ± 50	100,000	2.0	No
PTS820 J20MP SMTR LFS	160 ± 50	200,000	2.0	Yes
PTS820 J20KP SMTR LFS	250 ± 50	100,000	2.0	Yes
PTS820 J15M SMTR LFS	160 ± 50	200,000	1.5	No
PTS820 J15K SMTR LFS	250 ± 50	100,000	1.5	No
PTS820 J15MP SMTR LFS	160 ± 50	200,000	1.5	Yes
PTS820 J15KP SMTR LFS	250 ± 50	100,000	1.5	Yes

Electrical

MAXIMUM VOLTAGE:	12 VDC
MAXIMUM CURRENT DC:	50 mA
DIELECTRIC STRENGTH:	100 VA C (1mn)
CONTACT RESISTANCE:	≤ 100 mΩ
INSULATION RESISTANCE:	≥ 100 MΩ
BOUNCE TIME:	≤ 10 ms

Environmental

OPERATING TEMPERATURE: -40°C to 85°C

Process

SOLDERING: This component is suited to the following methods:
Infrared Reflow Soldering in accordance with IEC61760-1

NOTE: Specifications listed above are for switches with standard options.
For information on specific and custom switches, consult Customer Service Center.

Packaging

Switches in reels of 2,300 pieces for 2.5 mm 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

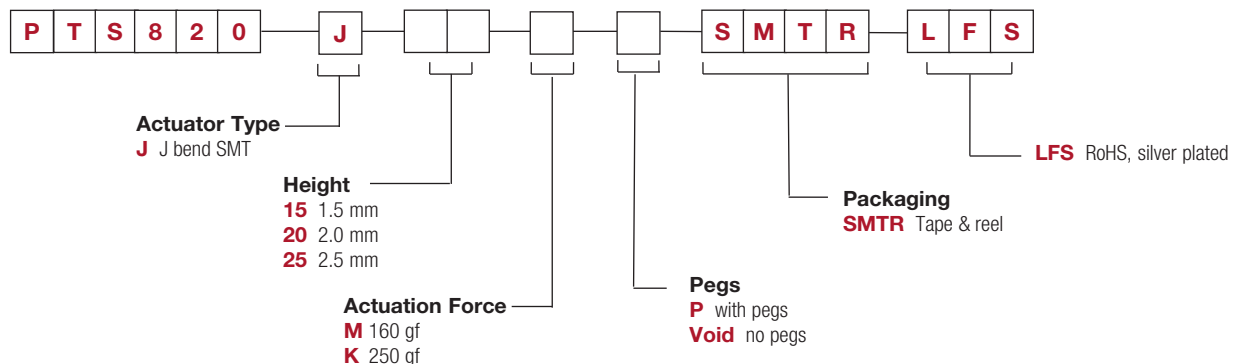
Dimensions of reels according to EIA 481B

External diameter 330 mm

How To Order

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.

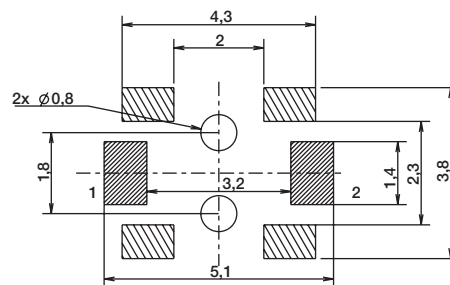
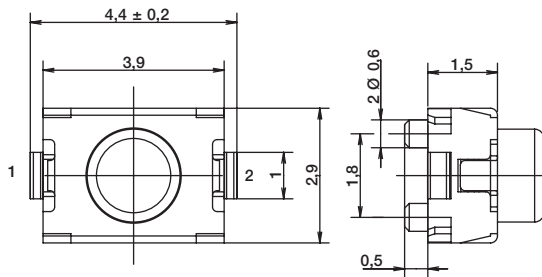
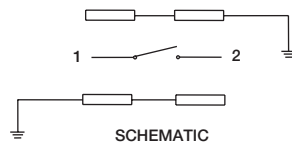
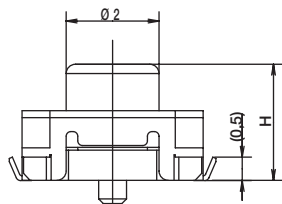


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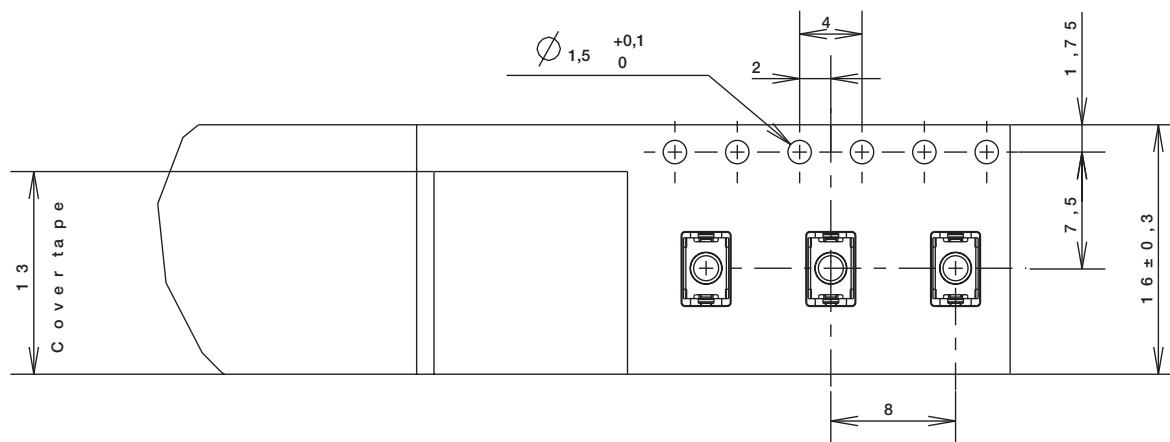
2.5 & 2.0 mm height (H) - version shown here with pegs

Tactile Switches

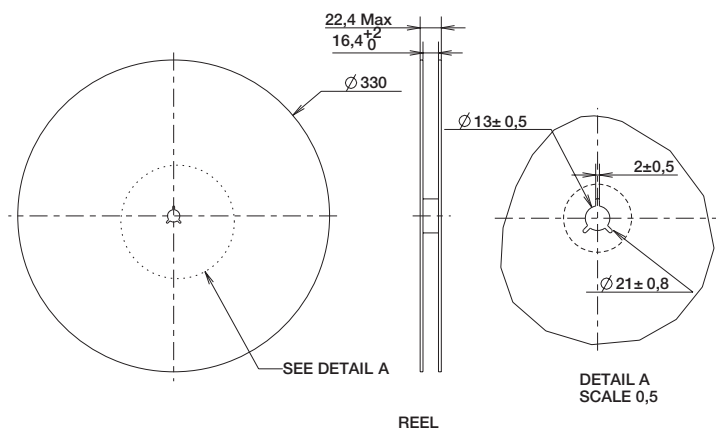
B



RECOMMENDED PCB LAYOUT



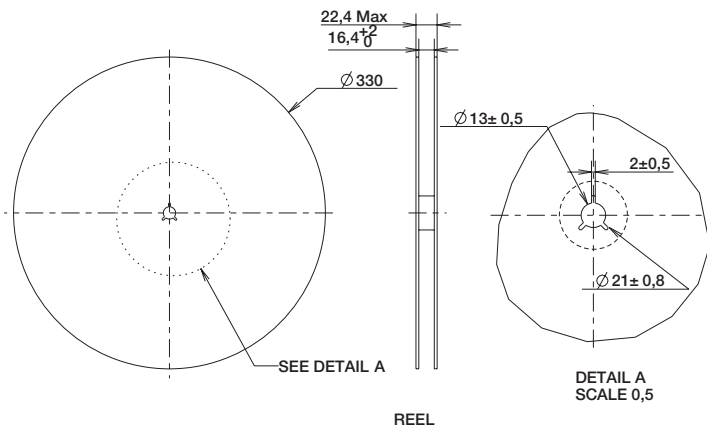
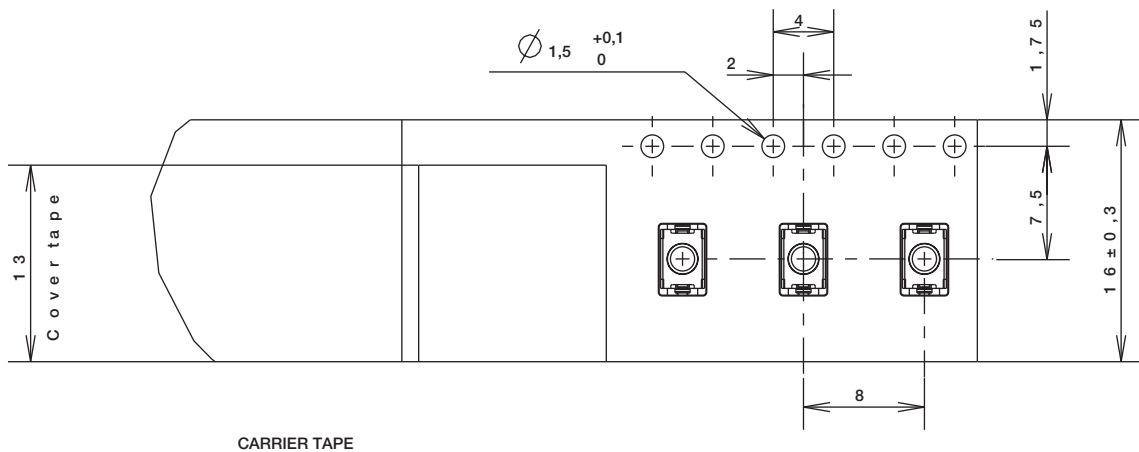
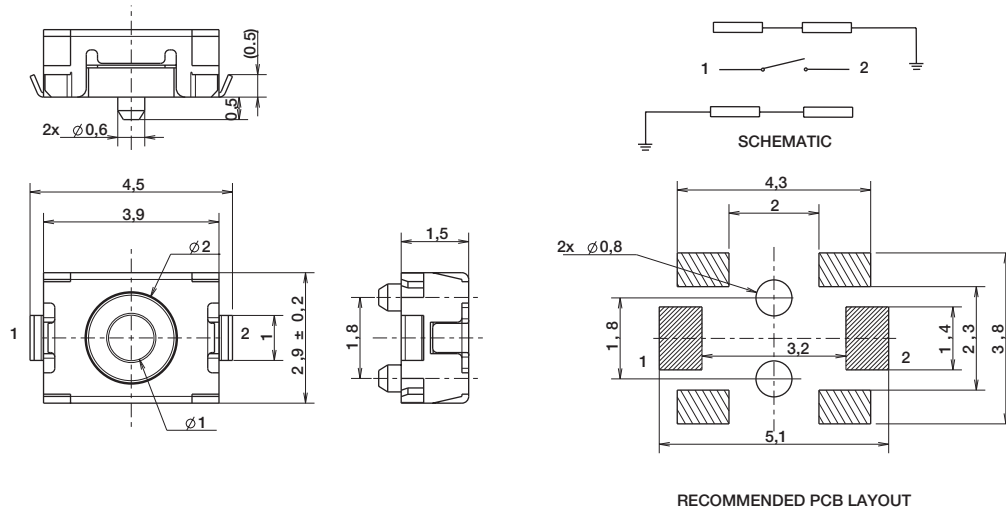
CARRIER TAPE



REEL

PTS 820 Series Microminiature SMT Top Actuated

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





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PTS820J15KPSMTRLFS

PTS820 SERIES

MICROMINIATURE SMT TOP ACTUATED



Image shown represents the product series and may not indicate the actual part number



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3D MODEL

The PTS820 series of microminiature SMT top actuated switches from C&K 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 AND BENEFITS

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

TYPICAL APPLICATIONS

- Keyless entry system
- Remote controls
- Control panels

SPECIFICATIONS

Solderability:	This component is suited to the following methods: Infrared Reflow Soldering in accordance with IEC61760-1
Electrical Life:	between 100,000 and 200,000 cycles
Contact Resistance:	< 100 milliohms
Dielectric Strength:	100 VA C (1mn)
Insulation Resistance:	> 100 megohms
Operating Temperature:	-40°C to 85°C
Contact Rating:	50mA

PTS820J15KPSMTRLFS

Most Common:	No
Current Rating:	50mA @ 12VDC
Circuit:	SPST-NO
Mounting Type:	Surface Mount
Sealing:	Sealed - IP40
Illumination:	No/None
Switch Function:	Off-Mom
Electrical Life Cycles:	100,000
Actuator Type:	Standard
Actuator Height off PCB, from Pins:	1.50mm
Actuator Orientation:	Top Actuated
Termination Style:	J Lead
Footprint:	3.90mm x 2.90mm
Illumination Voltage (Nominal):	
Illumination Type, Color:	
Operating Force:	250gf
Additional Features:	Board Guide
Packaging:	Tape & Reel

