

PTS647 Series

Tactile Switch for SMT 4.5 x 4.5 mm



Description

The PTS647 series is a small 4.5 x 4.5 mm form factor in SMT version with 3 different heights and 3 available actuation forces, ideal for general usage applications

Features & Benefits

- Compact size 4.5 x 4.5 mm
- Choice of actuation forces
- SMT terminals
- Tape & reel
- Different actuator heights

Applications

- Consumer
- Industrial control panels
- Computer products

Specifications

Travel	0.25 +/- 0.15 mm
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Electrical Specifications

Contact Rating	50 mA @ 12 V DC.
Dielectric Strength	250 VA C (1mn)
Contact Resistance	100 mΩ max. initial
Insulation Resistance	100 MΩ min.

Environmental Specifications

Operating Temperature	-40°C to 85°C
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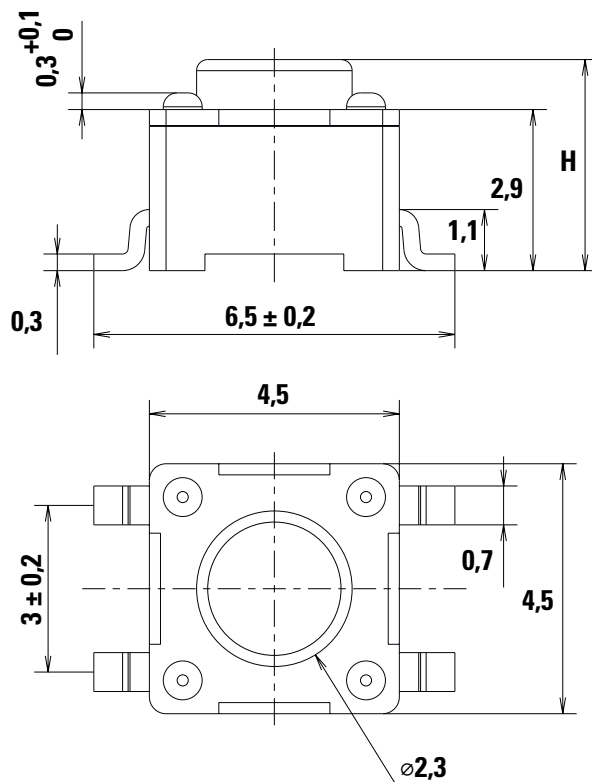
Process

Packaging	In reels of 1,000 pieces for 7.0 mm In reels of 1,500 pieces for 5.0 mm In reels of 2,000 pieces for 3.8 mm Dimensions of reels according to EIA RS481 or IEC 2863. External diameter 330 mm ± 2 mm.
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Notes:

Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center. The PTS series is not certified for using in Automotive application and no PPAP. However, in the case of some automotive accessories and specific applications for 2 and 3 wheeled vehicles the PTS is widely used and very suitable. Please contact your local representative to discuss your application and the best switch solution.

Dimensions (mm)



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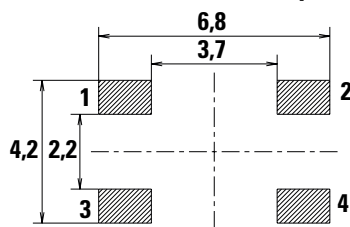


Mechanical Characteristics

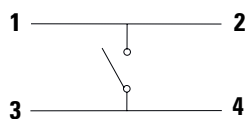
Part #	Operating Force (gf)	Life	Height (H)
PTS647 SN38 SMTR2 LFS	100 +/- 50	100,000	3.8 mm
PTS647 SM38 SMTR2 LFS	180 +/- 50		
PTS647 SK38 SMTR2 LFS	250 +/- 50		
PTS647 SN50 SMTR2 LFS	100 +/- 50	100,000	5.0 mm
PTS647 SM50 SMTR2 LFS	180 +/- 50		
PTS647 SK50 SMTR2 LFS	250 +/- 50		
PTS647 SN70 SMTR2 LFS	100 +/- 50	100,000	7.0 mm
PTS647 SM70 SMTR2 LFS	180 +/- 50		
PTS647 SK70 SMTR2 LFS	250 +/- 50		

Terminations (mm)

Recommended PCB Layout

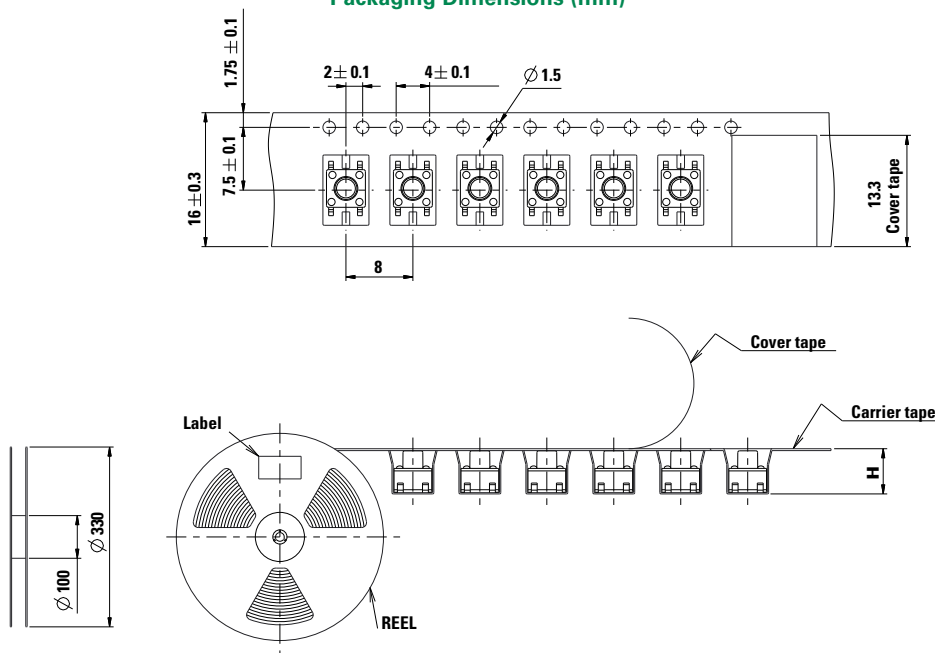


Schematic



PTS647 Series

Tactile Switch for SMT 4.5 x 4.5 mm

**Packaging Dimensions (mm)****Pocket Height (mm)**

Part #	Pocket Height (H)
PTS647 SN38 SMTR2 LFS	4.2 mm
PTS647 SM38 SMTR2 LFS	
PTS647 SK38 SMTR2 LFS	
PTS647 SN50 SMTR2 LFS	5.4 mm
PTS647 SM50 SMTR2 LFS	
PTS647 SK50 SMTR2 LFS	
PTS647 SN70 SMTR2 LFS	7.2 mm
PTS647 SM70 SMTR2 LFS	
PTS647 SK70 SMTR2 LFS	

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.

PTS647 - Sxxx - SMTR2 - LFS

Termination
S: Straight

Actuation Force
N: 100 gf
M: 180 gf
K: 250 gf

Total Height
38: 3.8mm
50: 5.0mm
70: 7.0mm

LFS: Lead free compatible,
silver plated

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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