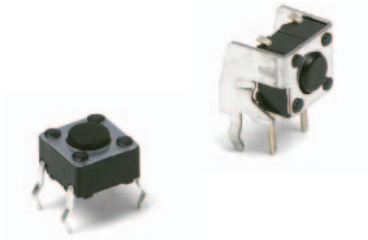


PTS645 Series 6 mm Tact Switches



Features/Benefits

- Compact size 6 x 6 mm
- Variety of actuator lengths
- Choice of actuation force
- RoHS compliant and compatible

Typical Applications

- Consumer products
- Instrumentation
- Computer products
- Industrial

Specification

FUNCTION: Momentary action
CONTACT ARRANGEMENT: SPST, N.O.
TERMINALS: PC pins

Mechanical

ACTUATION FORCE: 130 grams, 160 grams, 200 grams, 260 grams
LIFE EXPECTANCY: 100,000 operations.

Electrical

CONTACT RATING: 50 mA @ 12 V DC.
DIELECTRIC STRENGTH: 250 V AC min.
CONTACT RESISTANCE: 100 mΩ max. initial.
INSULATION RESISTANCE: 10¹¹ Ω min.

Environmental

OPERATING TEMPERATURE: -20°C to 60°C

Process

SOLDERING: Preheating to 100°C for 45 sec. max. Keep flux flush with top surface of PCB; do not apply to component side of PCB and area where terminals are located. Soldering to 255°C for 5 sec. max. Clean by brushing on solder surface. Do not clean switch with solvents.

Packaging

Bulk packaging.

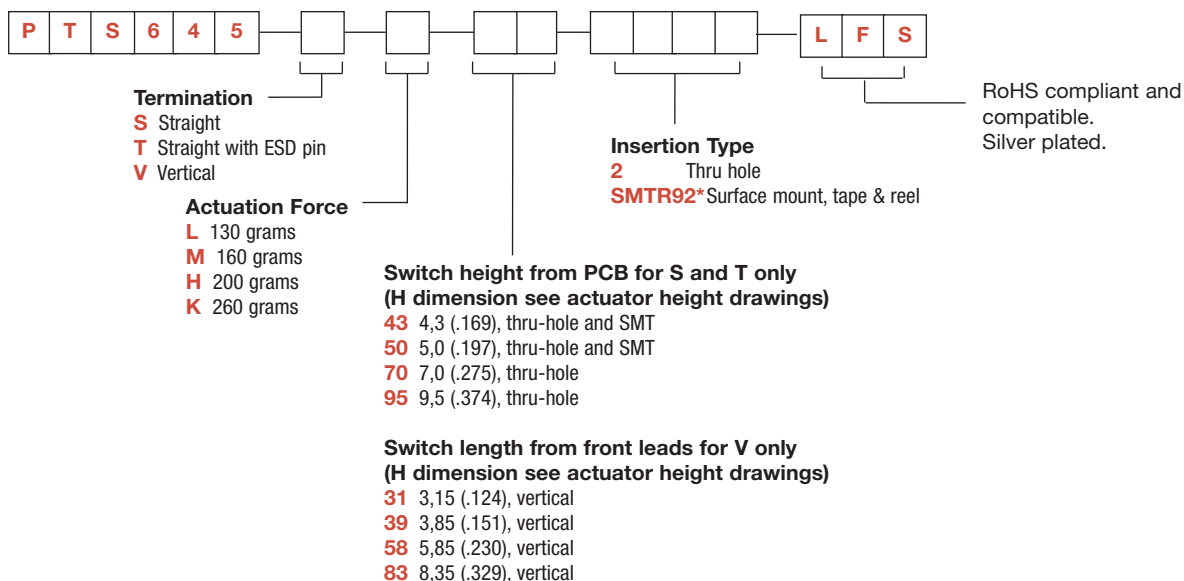
Tape & reel for the SMT type:

Reels of 1,000 pieces for 4,3 and 5,0 mm height
Reels of 700 pieces for 7,0 mm height
Reels of 500 pieces for 9,5 mm height

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

How To Order

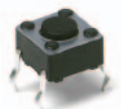
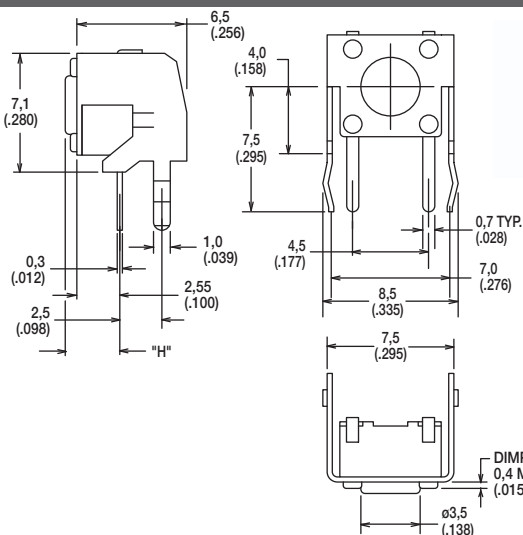
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



*Only the straight type termination without ESD pin is available in SMT type.

Tactile Switches

B

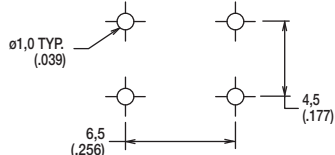
**PTS645S Model**

PTS645V Model

Technical drawing of the 1000 Series 1/2" tool, showing three views: side, front, and top. Dimensions are provided in inches and millimeters.

- Side View:** Shows the tool's profile with a total length of 7.9" (.311"). The distance from the front face to the start of the cutting edge is 6.5" (.256"). The cutting edge thickness is 0.7 TYP. (.028"). The distance from the cutting edge to the back face is 1.8" (.071"). The distance from the cutting edge to the center of the mounting hole is 3.5" (.138").
- Front View:** Shows the tool's face with a central circular hole and four mounting holes. The distance from the center of the central hole to the center of the mounting holes is 4.5" (.177").
- Top View:** Shows the tool's top surface with a central circular hole and four mounting holes.

PCB LAYOUT

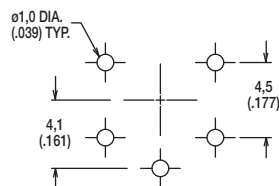


Technical drawing of a 1/2" NPT female adapter. The drawing includes three views: a side view, a front view, and a top view. The side view shows a vertical pipe with a flange at the top. The front view shows the flange with four mounting holes. The top view shows the circular flange with four mounting holes. Dimensions are given in inches and millimeters.

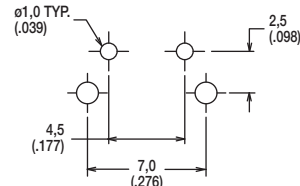
Dimensions (inches / millimeters):

- 0,3 (.012)
- 4,1 (.161)
- 0,7 TYP (.028)
- 0,7 (.028)
- 1,8 (.071)
- 3,5 (.138)
- 6,5 (.256)
- 7,9 (.311)
- 4,5 (.177)

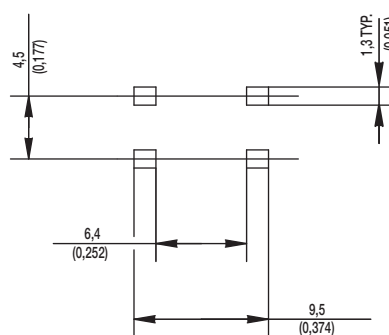
PCB LAYOUT



PCB LAYOUT



Technical drawing of the 1000 Series 1/2" component. The drawing shows a side view and a top view. The side view indicates a total height of 3.6 (0.142) and a central hole diameter of $\varnothing 3.5$ (0.138). The top view shows a square base with a side length of 9.0 (0.354). The top view also shows a central hole with a diameter of 6.0 S.Q. (0.236).



Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

PTS645 Series 6 mm Tact Switches

ACTUATION FORCE



OPTION CODE	FORCE
L	130 grams
M	160 grams
H	200 grams
K	260 grams

ACTUATOR HEIGHT

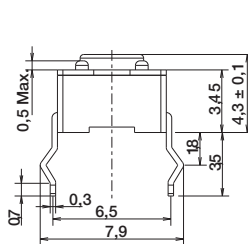


B

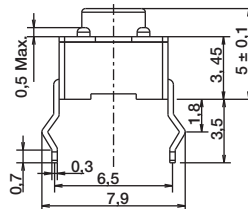
Tactile Switches

OPTION CODE	DIMENSION H	TERMINATION	SCHEMATIC	
			Without EMC pin	With EMC pin
43	4,3 (.169)	Thru-hole and SMT		
50	5,0 (.197)	Thru-hole and SMT		
70	7,0 (.275)	Thru-hole and SMT		
95	9,5 (.374)	Thru-hole and SMT		
31	3,15 (.124)	Vertical		
39	3,85 (.151)	Vertical		
58	5,85 (.230)	Vertical		
83	8,35 (.329)	Vertical		

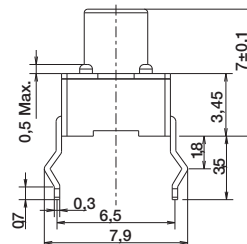
43



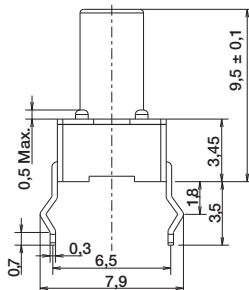
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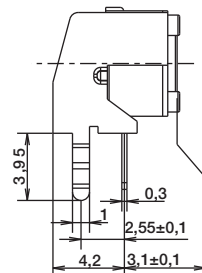
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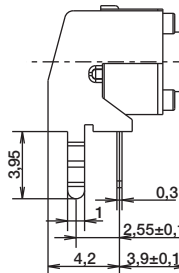
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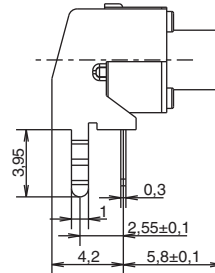
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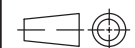
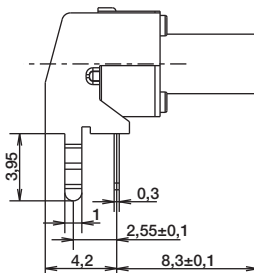
39



58



83



First Angle
Projection

PTS645 Series
6 mm Tact Switches

TAPE & REEL

B

Tactile Switches

