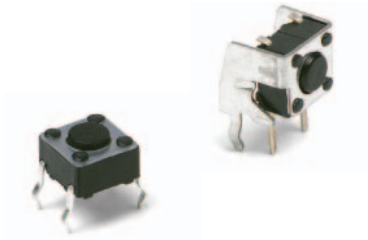


PTS645 Series 6 mm Tact Switches



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.

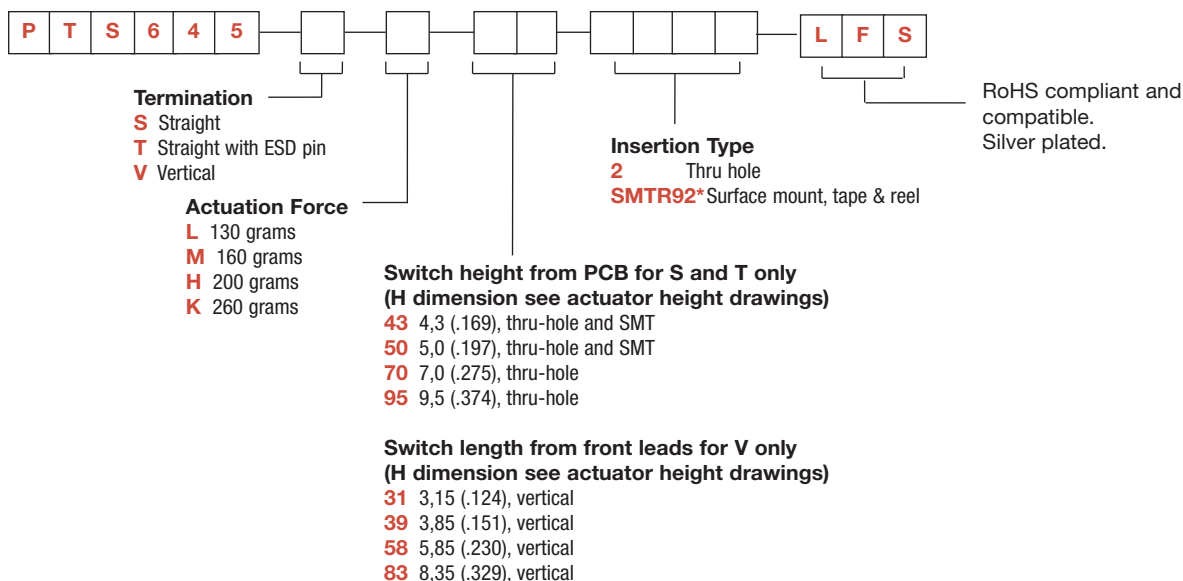
Tape & reel for the SMT type:

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

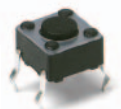
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



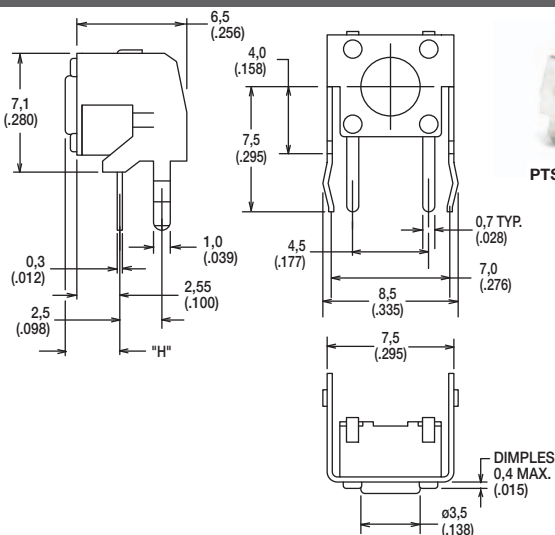
*Only the straight type termination without ESD pin is available in SMT type.

Tactile Switches

B



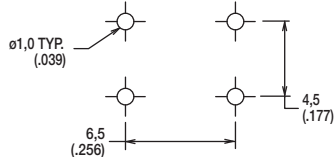
PTS645S Model

**PTS645V Model**

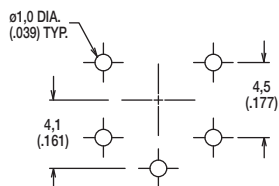
Technical drawing of the 1000 Series 1/2" (Figure 1000-1). The drawing includes three views: a side view, a front view, and a top view. Dimensions are provided in inches and millimeters.

- Side View:**
 - Overall height: 1.8 (.071)
 - Distance from top to first bend: 6.5 (.296)
 - Distance between bends: 7.9 (.311)
 - Distance from second bend to bottom: 3.5 (.138)
 - Tip diameter: 0.7 TYP. (.028)
- Top View:**
 - Distance from center to mounting hole center: 4.5 (.177)

PCB LAYOUT



PCB LAYOUT



Technical drawing of the 1000 Series Handgun, showing side and top views with dimensions in inches and millimeters.

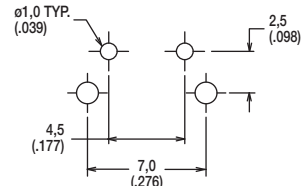
Side View Dimensions:

- Overall length: 8.5 (216)
- Slide thickness: 0.7 TYP. (.028)
- Slide to frame distance: 4.5 (.177)
- Slide to barrel distance: 7.5 (.295)
- Slide to trigger distance: 4.0 (.158)
- Slide to trigger distance (alternative): 7.0 (.276)
- Slide to trigger distance (alternative): 2.5 (.098)
- Slide to trigger distance (alternative): 1.0 (.039)
- Slide to trigger distance (alternative): 0.3 (.012)

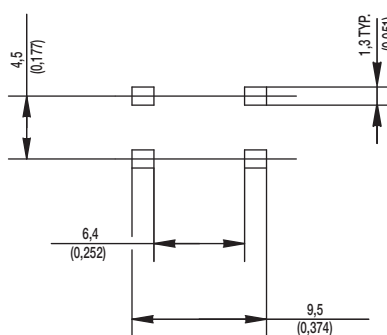
Top View Dimensions:

- Overall width: 8.5 (216)
- Slide to frame distance: 4.5 (.177)
- Slide to trigger distance: 7.5 (.295)
- Slide to trigger distance (alternative): 4.0 (.158)
- Slide to trigger distance (alternative): 7.0 (.276)
- Slide to trigger distance (alternative): 2.5 (.098)
- Slide to trigger distance (alternative): 1.0 (.039)
- Slide to trigger distance (alternative): 0.3 (.012)

PCB LAYOUT



Technical drawing of the 1000 Series 1/2" component. The drawing shows a side view and a top view. The side view dimensions are: outer diameter $\varnothing 3,5$ (0,138), height 3,6 (0,142), and width 9,0 (0,354). The top view dimensions are: height 4,5 (0,177) and width 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

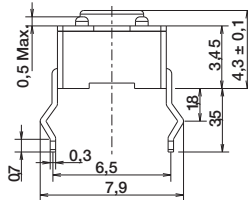


B

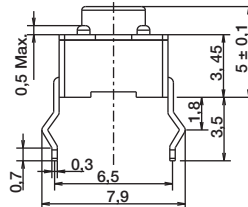
Tactile Switches

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		

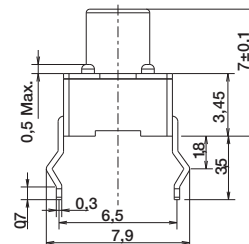
43



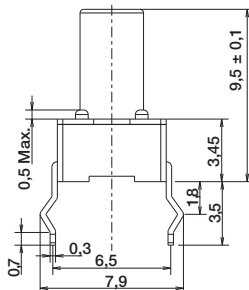
50



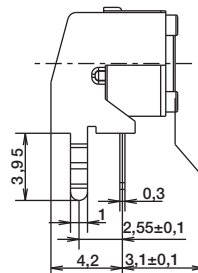
70



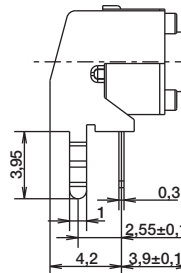
95



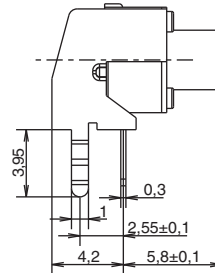
31



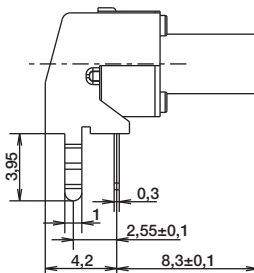
39



58



83



First Angle
Projection

PTS645 Series
6 mm Tact Switches

TAPE & REEL

Tactile Switches

B

