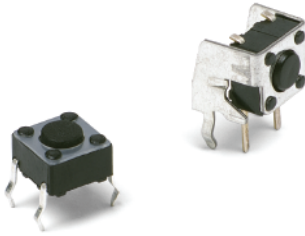


PTS645 Series 6 mm Tact Switches



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: PTS645 models: 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

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

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.

Materials

BASE: 6/6 nylon or glass filled polyester (PBT).
ACTUATOR: 6/6 nylon or polyacetal.
COVER PLATE: PTS645S: Polyester or stainless steel.
PTS645T and PTS645V: Tin alloy or stainless steel.
DOME CONTACTS: Phosphor bronze, silver clad.
STATIONARY CONTACTS: Brass, silver plated.
TERMINALS: Brass, silver plated. Insert molded.

Packaging

Bulk packaging.

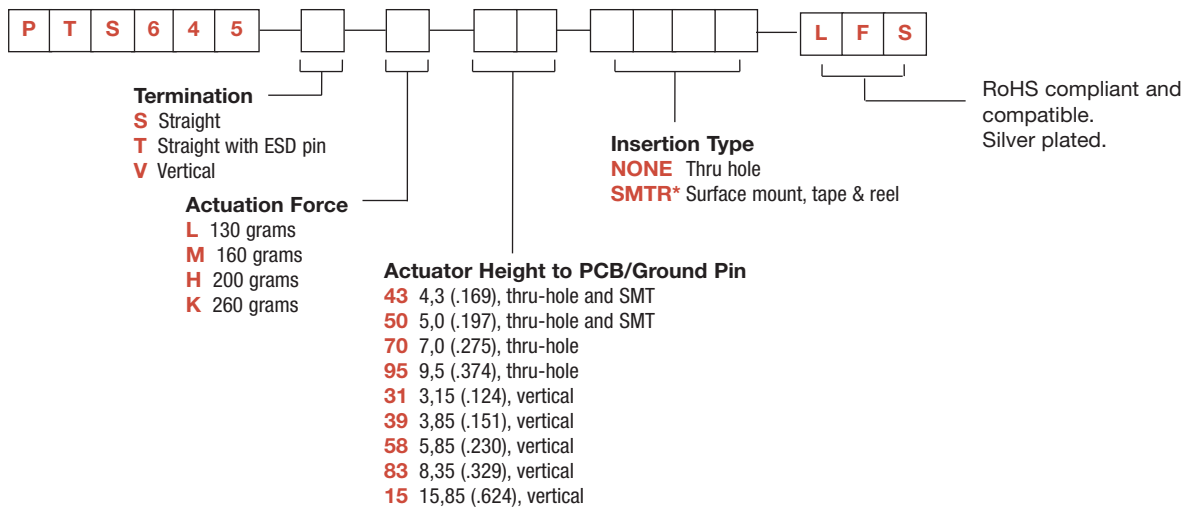
Tape & reel for the SMT type:

Reel of 1,000 pieces

Tactile Switches

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.

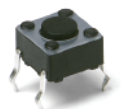
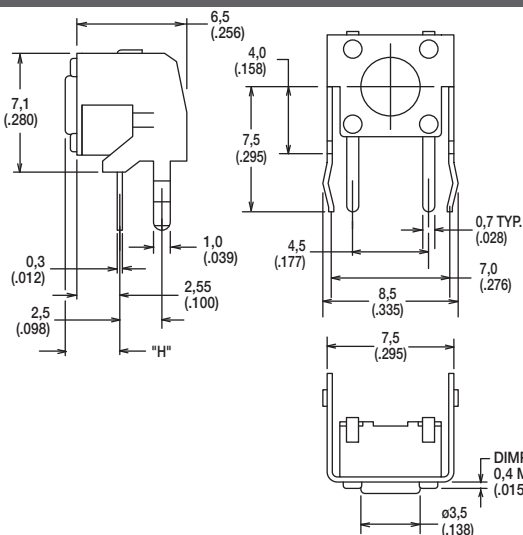


*Only the PTS645 in horizontal type without ESD pin is available in SMT type.



Tactile Switches

B

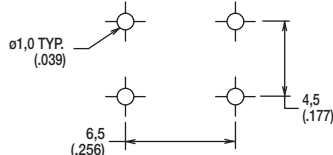
**PTS645S Model**

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 center of mounting holes: 6.5 (.256)
 - Distance between mounting holes: 7.9 (.311)
 - Distance from center of mounting holes to center of probe: 0.7 TYP. (.028)
 - Distance from center of probe to center of mounting holes: 3.5 (.138)
- Top View:**
 - Distance from center of probe to center of mounting holes: 4.5 (.177)

PCB LAYOUT



Technical drawings of the 1000 Series 1/2" components, showing three views: side, front, and top.

Side View (Left):

- Overall width: 0.3 (.012)
- Distance from left edge to centerline: 4.1 (.161)
- Distance from centerline to right edge: 0.7 TYP (.028)

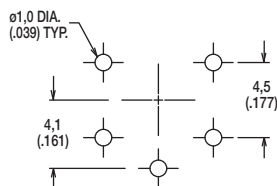
Front View (Right):

- Overall width: 7.9 (.311)
- Distance from left edge to centerline: 6.5 (.256)
- Distance from centerline to right edge: 0.7 (.028)
- Distance from right edge to centerline: 1.8 (.071)
- Distance from centerline to right edge: 3.5 (.138)

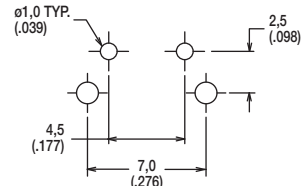
Top View (Bottom):

- Overall width: 4.5 (.177)

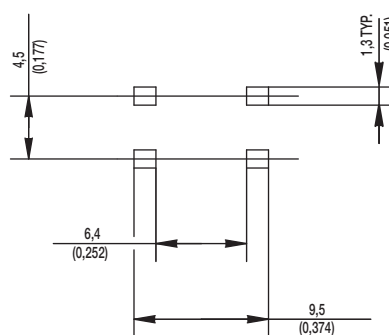
PCB LAYOUT



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 top flange 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 circular feature 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



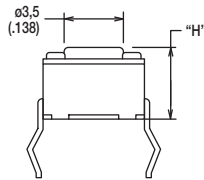
OPTION CODE	FORCE
L	130 grams
M	160 grams
H	200 grams
K	260 grams

ACTUATOR HEIGHT

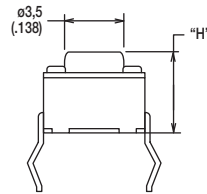


OPTION CODE	HEIGHT "H" or LENGTH "L"	TERMINATION	SCHEMATIC	
			Without EMC pin	With EMC pin
43	4,3 (.169)	Thru-hole and SMT		
50	5,0 (.197)	Thru-hole and SMT		
70	7,0 (.275)	Thru-hole		
95	9,5 (.374)	Thru-hole		
31	3,15 (.124)	Vertical		
39	3,85 (.151)	Vertical		
58	5,85 (.230)	Vertical		
83	8,35 (.329)	Vertical		
15	15,85 (.624)	Vertical		

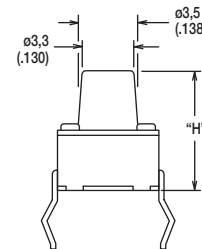
43



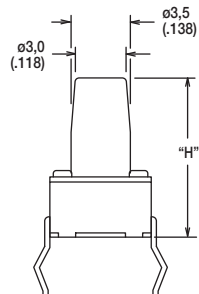
50



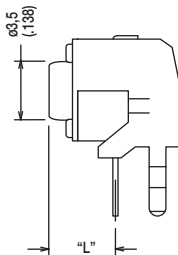
70



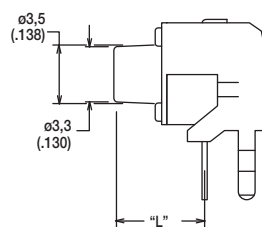
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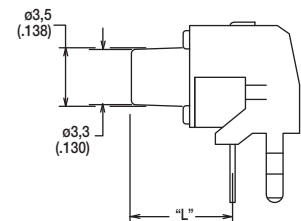
31



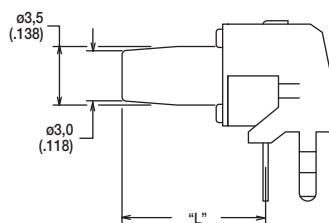
39



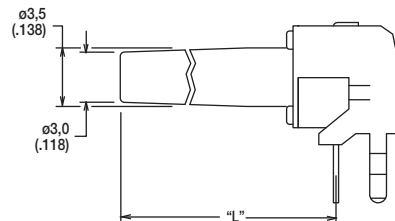
58



83



15



First Angle
Projection

