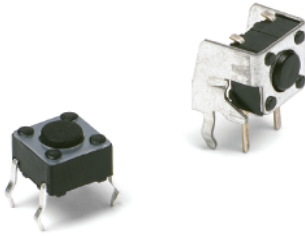


PTS645 Series 6 mm Tact Switches



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.

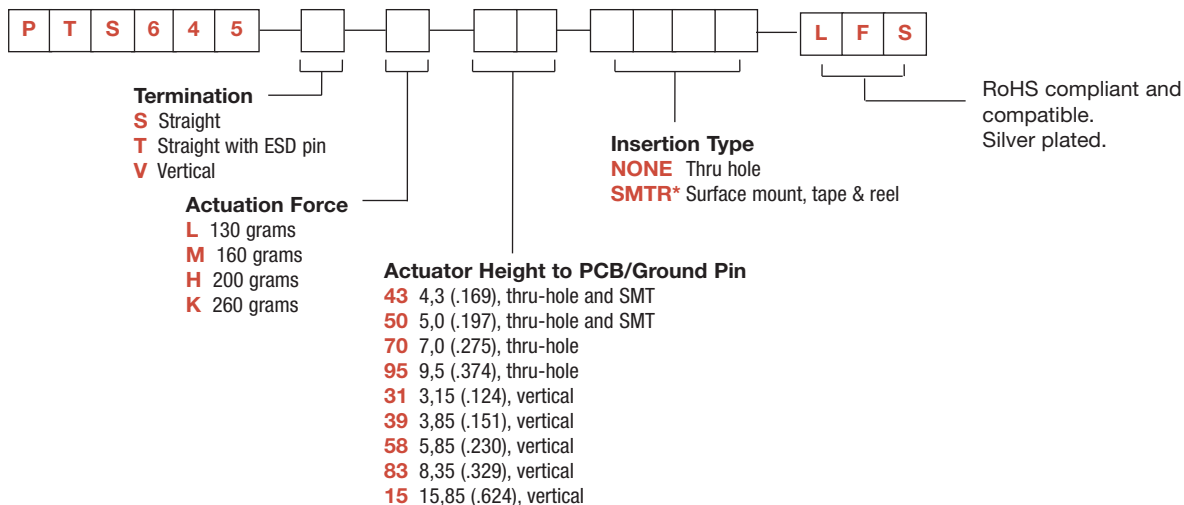
Tape & reel for the SMT type:

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



PTS645S Model

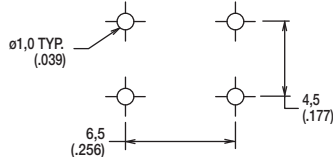


PTS645V Model

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

- Side View (Top):** Shows the profile of the component. Dimensions include a total width of 7.9 (311), a central width of 6.5 (256), and a side width of 1.8 (.071).
- Side View (Bottom):** Shows the profile of the component. Dimensions include a total width of 7.9 (311), a central width of 6.5 (256), and a side width of 3.5 (138).
- Top View:** Shows the top of the component. Dimensions include a central width of 6.5 (256) and a side width of 4.5 (177).

PCB LAYOUT



Technical drawing of the 1000 Series Valve, showing three views: side, front, and top. Dimensions are provided in inches and millimeters.

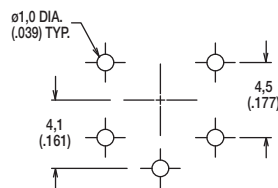
Side View Dimensions:

- Overall width: 0,3 (.012)
- Distance from left edge to centerline: 4,1 (.161)
- Distance from centerline to right edge: 0,7 TYP (.028)
- Overall height: 7,9 (.311)
- Distance from top edge to centerline: 1,8 (.071)
- Distance from centerline to right edge: 0,7 (.028)
- Distance from right edge to centerline: 3,5 (.138)
- Distance from centerline to right edge: 6,5 (.256)

Top View Dimensions:

- Distance from top edge to centerline: 4,5 (.177)

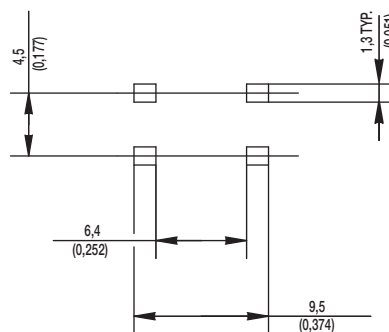
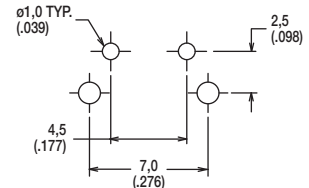
PCB LAYOUT



The technical drawing shows two views of a mechanical component. The left view is a side profile showing a complex upper body with mounting tabs and a central shaft assembly. The right view is a front elevation showing a rectangular base plate with four circular features arranged symmetrically around a central square opening. Dimensions are provided in millimeters (mm) and inches (in).

Dimension	Value (mm)	Value (in)
Total Height	11.5	(.453)
Top Section Height	4.0	(.158)
Middle Section Height	7.5	(.295)
Shaft Diameter	1.0	(.039)
Bottom Flange Thickness	0.3	(.012)
Internal Step Width	2.5	(.098)
Central Opening Width	4.5	(.177)
Side Feature Width	0.7 TYP.	(.028)
Base Plate Width	7.0	(.276)
Overall Base Width	8.5	(.335)

PCB LAYOUT



First Angle Projection

PTS645 Series 6 mm Tact Switches

ACTUATION FORCE



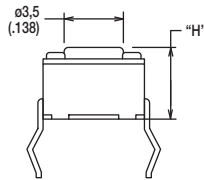
OPTION CODE	FORCE
L	130 grams
M	160 grams
H	200 grams
K	260 grams

ACTUATOR HEIGHT

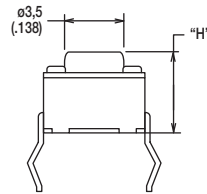


OPTION CODE	HEIGHT "H" or LENGTH "L"	TERMINATION	SCHEMATIC	
			Without EMC pin	With EMC pin
43	4,3 (.169)	Thru-hole and SMT		
50	5,0 (.197)	Thru-hole and SMT		
70	7,0 (.275)	Thru-hole		
95	9,5 (.374)	Thru-hole		
31	3,15 (.124)	Vertical		
39	3,85 (.151)	Vertical		
58	5,85 (.230)	Vertical		
83	8,35 (.329)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

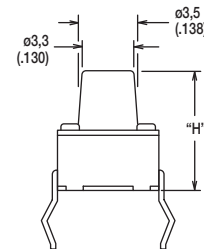
43



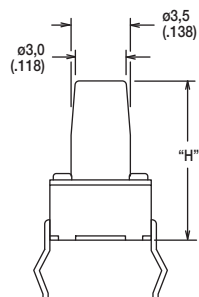
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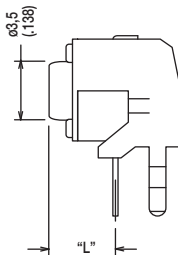
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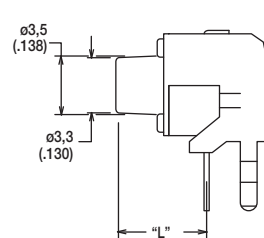
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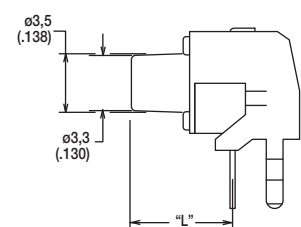
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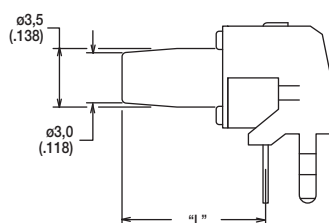
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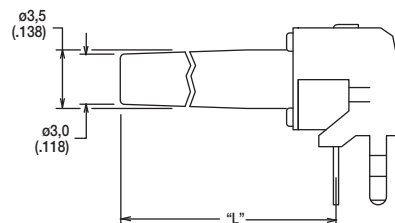
58



83



15



First Angle
Projection

