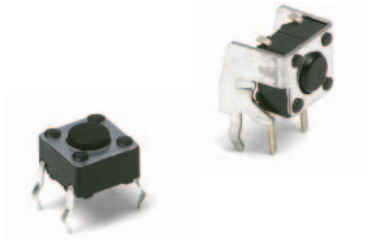


PTS645 Series 6 mm Tact Switches



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.

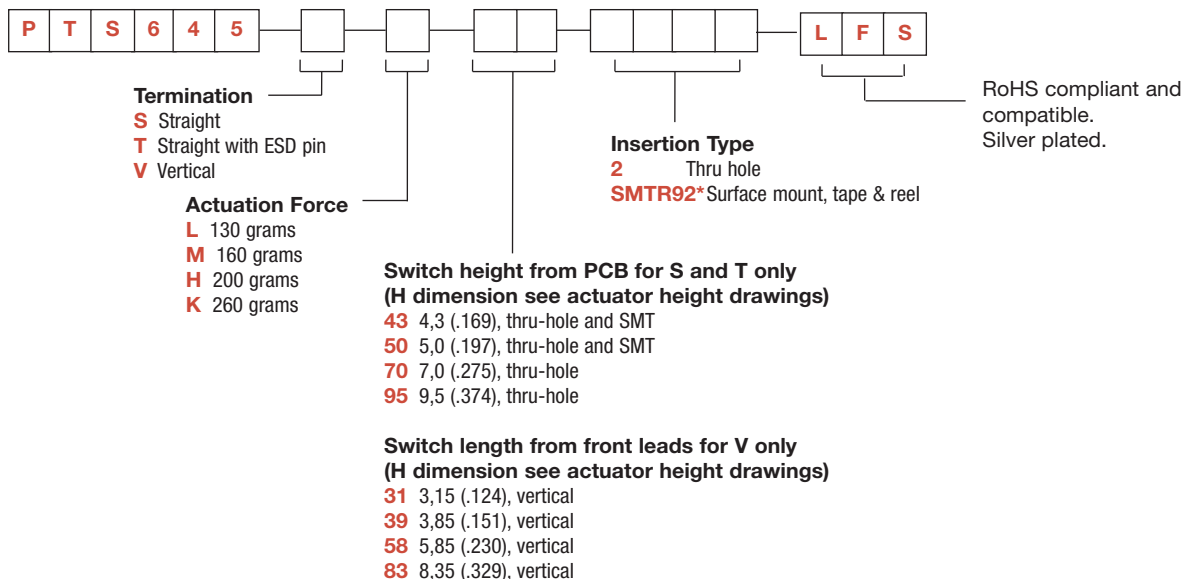
Tape & reel for the SMT type:

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

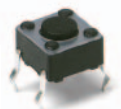
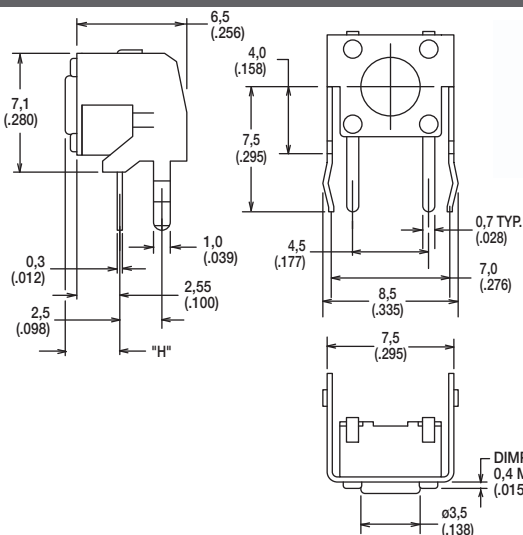
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



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

Tactile Switches

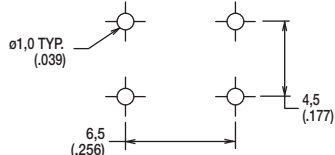
B

**PTS645S Model**

PTS645V Model

Technical drawings of the 1000 Series 1/2" tool bit. The top view shows a square tool bit with a central circular hole. Dimensions include a width of 7.9 (.311), a height of 4.5 (.177), and a central hole diameter of 0.7 TYP. (.028). The side view shows the tool bit's profile with a width of 1.8 (.071) and a height of 3.5 (.138). The bottom view shows the tool bit's base with a width of 6.5 (.256) and a height of 7.9 (.311).

PCB LAYOUT



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

Side View (Left):

- Overall width: 0.3 (.012)
- Overall height: 4.1 (.161)
- Internal width: 0.7 TYP (.028)

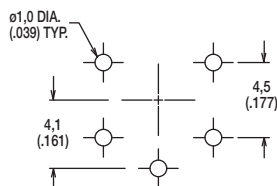
Side View (Right):

- Overall width: 7.9 (.311)
- Internal width: 0.7 (.028)
- Internal width: 3.5 (.138)
- Internal width: 6.5 (.256)
- Internal width: 1.8 (.071)

Top View (Bottom):

- Overall width: 4.5 (.177)

PCB LAYOUT



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

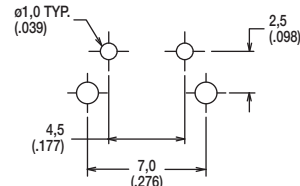
Side View Dimensions:

- Overall length: 8.5 (216)
- Distance from front to trigger guard: 4.5 (117)
- Trigger guard length: 2.5 (.098)
- Distance from trigger guard to rear: 1.0 (.039)
- Front sight post diameter: 0.3 (.012)

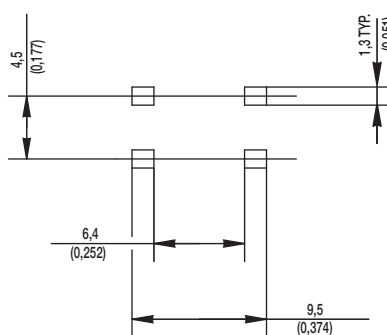
Top View Dimensions:

- Overall width: 7.0 (.276)
- Distance between front sight posts: 0.7 TYP. (.028)
- Distance from front sight post to center: 4.0 (.158)
- Distance from front sight post to trigger guard: 7.5 (.295)

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



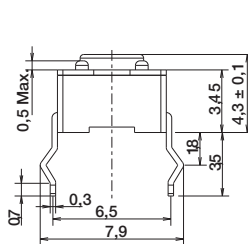
OPTION CODE	FORCE
L	130 grams
M	160 grams
H	200 grams
K	260 grams

ACTUATOR HEIGHT

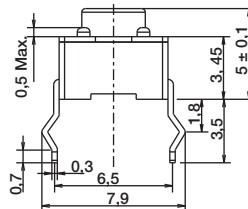


OPTION CODE	DIMENSION H	TERMINATION	SCHEMATIC	
			Without EMC pin	With EMC pin
43	4,3 (.169)	Thru-hole and SMT		
50	5,0 (.197)	Thru-hole and SMT		
70	7,0 (.275)	Thru-hole and SMT		
95	9,5 (.374)	Thru-hole and SMT		
31	3,15 (.124)	Vertical		
39	3,85 (.151)	Vertical		
58	5,85 (.230)	Vertical		
83	8,35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

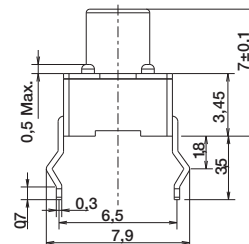
43



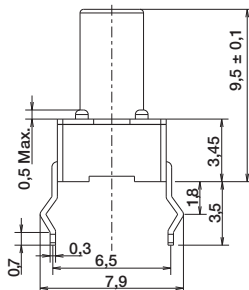
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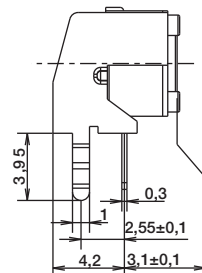
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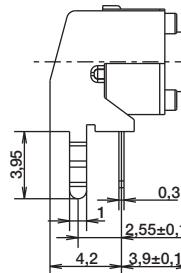
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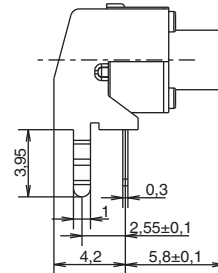
31



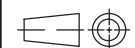
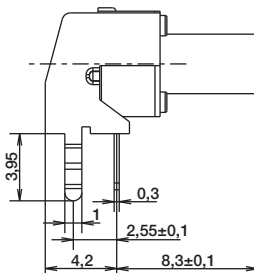
39



58



83



First Angle
Projection

PTS645 Series
6 mm Tact Switches

TAPE & REEL

B

Tactile Switches

