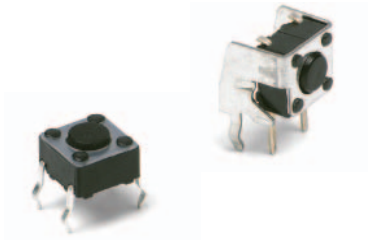


PTS645 Series 6 mm Tact Switches



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.

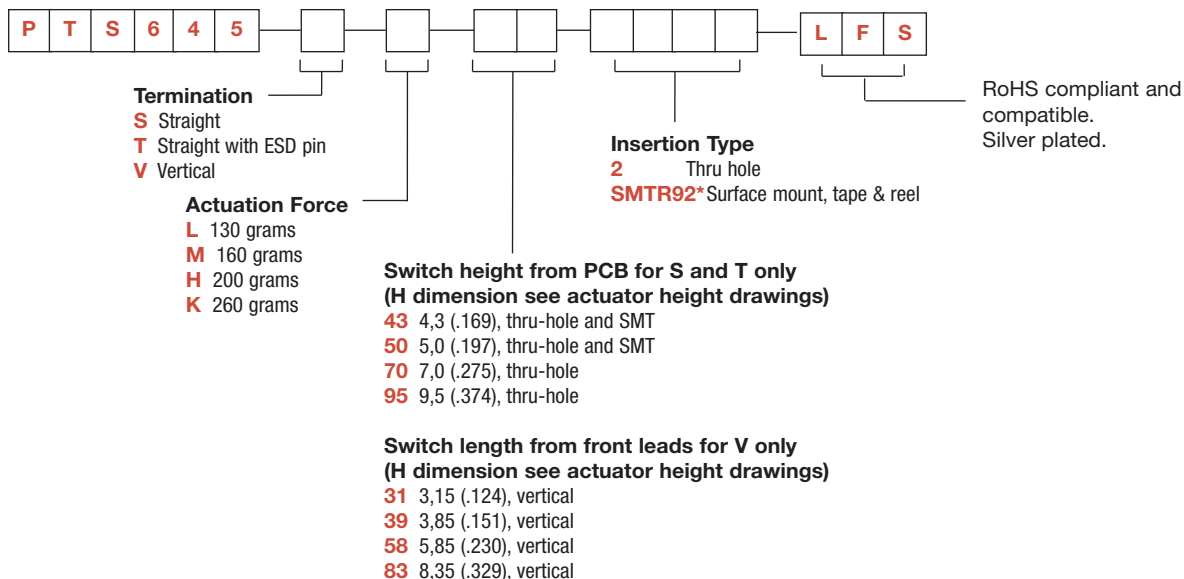
Tape & reel for the SMT type:

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



PTS645S Model

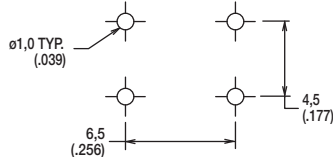


PTS645V Model

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)
- Distance from centerline to right edge (total): 0,7 (.028)

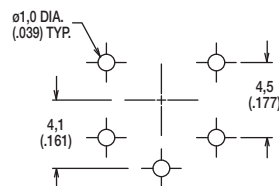
Front View Dimensions:

- Overall width: 7,9 (.311)
- Distance from left edge to centerline: 6,5 (.256)
- Distance from centerline to right edge: 3,5 (.138)
- Distance from top edge to centerline: 1,8 (.071)

Top View Dimensions:

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

PCB LAYOUT



Technical drawing of a 1/2 inch impact driver bit. The drawing shows a side view of the bit on the left and a top view of the bit on the right. Dimensions are given in inches and millimeters.

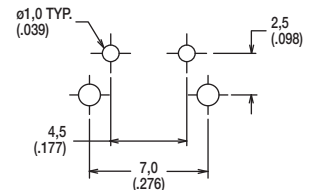
Side View Dimensions:

- Total length: 4.0 (102)
- Length of the hexagonal section: 7.5 (295)
- Length of the cylindrical section: 1.0 (25.4)
- Length of the hexagonal section: 2.5 (63.5)
- Length of the cylindrical section: 0.3 (7.6)

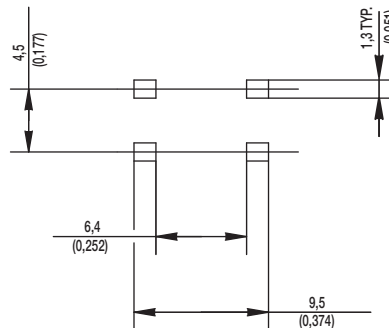
Top View Dimensions:

- Total width: 8.5 (216)
- Width of the hexagonal section: 4.5 (114.3)
- Width of the cylindrical section: 7.0 (177.8)
- Width of the hexagonal section: 0.7 TYP. (17.8)

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: top flange diameter $\varnothing 3.5$ (0,138), total height 3,6 (0,142), and base width 9,0 (0,354). The top view shows a square base with a side length of 6,0 SQ. (0,236) and a central circular hole. The height of the top flange is indicated as DIM 1/4".



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

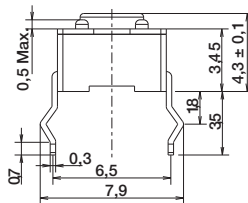


B

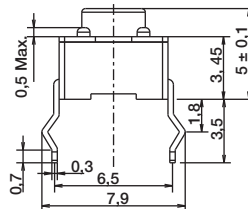
Tactile Switches

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		

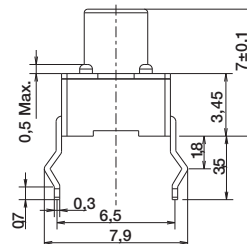
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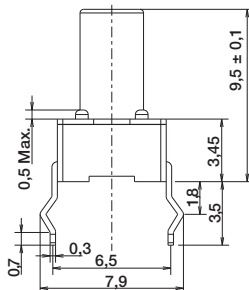
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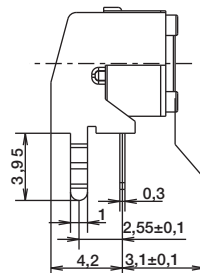
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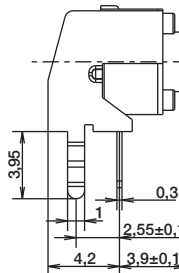
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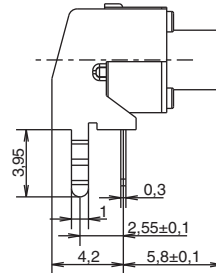
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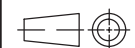
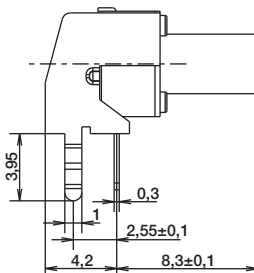
39



58



83



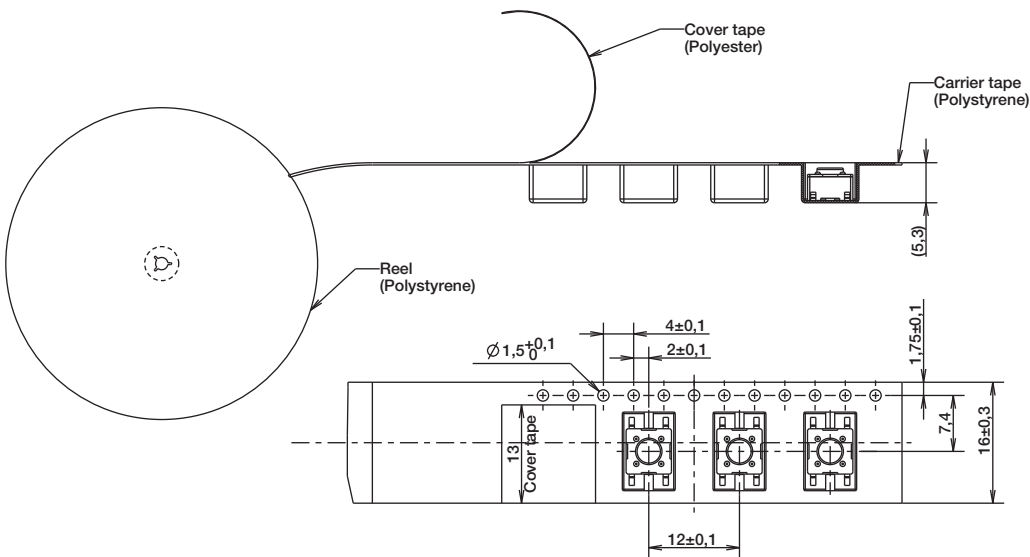
First Angle
Projection

PTS645 Series
6 mm Tact Switches

TAPE & REEL

B

Tactile Switches



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

C&K Components:

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[PTS645SL43SM](#) [PTS645TH43](#) [PTS645TH50](#) [PTS645TH95](#) [PTS645TH70](#) [PTS645VL83](#) [PTS645VL31](#)
[PTS645VL58](#) [PTS645VL39](#) [PTS645TL95](#) [PTS645TL70](#) [PTS645TL43](#) [PTS645TL50](#) [PTS645VH39](#) [PTS645VH83](#)
[PTS645VH58](#) [PTS645VH31](#) [PTS645SM43SMTR LFS](#) [PTS645SM43TR LFS](#) [PTS645TL43 LFS](#) [PTS645SK50TR LFS](#)
[PTS645SL70TR LFS](#) [PTS645SM50TR LFS](#) [PTS645TL70 LFS](#) [PTS645TL50 LFS](#) [PTS645SK43TR LFS](#)
[PTS645SL50SMTR LFS](#) [PTS645SH43SMTR LFS](#) [PTS645SL17LFS](#) [PTS645SM43LFS](#) [PTS645SM70LFS](#)
[PTS645SM95LFS](#) [PTS645SH43LFS](#) [PTS645SK70LFS](#) [PTS645TM43LFS](#) [PTS645TM50LFS](#) [PTS645TM70LFS](#)
[PTS645TM95LFS](#) [PTS645TH95LFS](#) [PTS645TK43LFS](#) [PTS645TK50LFS](#) [PTS645TK70LFS](#) [PTS645TK95LFS](#)
[PTS645VM83LFS](#) [PTS645VK31LFS](#) [PTS645VK83LFS](#) [PTS645SL43SMTRLFS](#) [PTS645SM50SMTRLFS](#)
[PTS645SH50SMTRLFS](#) [PTS645SK43SMTRLFS](#) [PTS645SK50SMTRLFS](#) [PTS645SK50-2 LFS](#) [PTS645SM43-2 LFS](#)
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