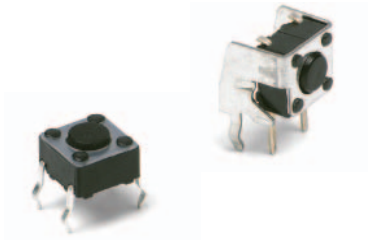


PTS645 Series 6 mm Tact Switches



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
Reels of 400 pieces for 13,0 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.

P	T	S	6	4	5											L	F	S
Termination																		
S Straight																		
T Straight with ESD pin																		
V Vertical																		
Actuation Force																		
L 130 grams																		
M 160 grams																		
H 200 grams																		
K 260 grams																		
Actuator Shape																		
NONE Round actuator, All versions																		
J Square actuator, 2.4 mm side THT versions only																		
Insertion Type																		
2 Thru hole																		
SMTR92* Surface mount, tape & reel																		
Switch height from PCB for S and T only (H dimension see actuator height drawings)																		
43 4,3 (.169), thru-hole and SMT																		
50 5,0 (.197), thru-hole and SMT																		
70 7,0 (.275), thru-hole and SMT																		
73 7,3 (.287), thru-hole, square actuator 2.4 mm side only																		
95 9,5 (.374), thru-hole and SMT																		
13 13,0 (.512) SMT only																		
Switch length from front leads for V only (H dimension see actuator height drawings)																		
31 3,15 (.124), vertical																		
39 3,85 (.151), vertical																		
58 5,85 (.230), vertical																		
61 6,15 (.242), vertical, square actuator 2.4 mm side only																		
83 8,35 (.329), vertical																		

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



17 dec 14

B-89

Dimensions are shown: mm
Specifications and dimensions subject to change

www.ck-components.com

Tactile Switches

B

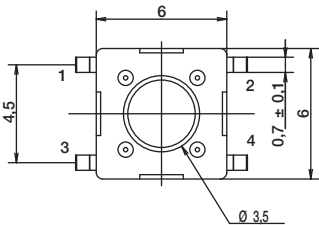
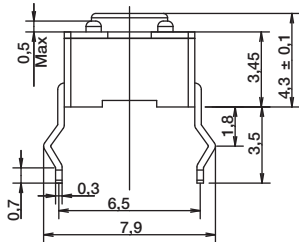


PTS645 Series

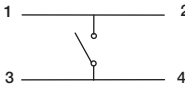
6 mm Tact Switches

TERMINATION

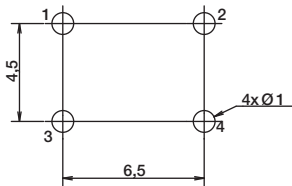
S STRAIGHT



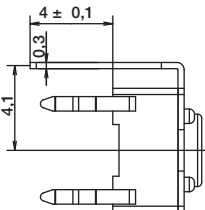
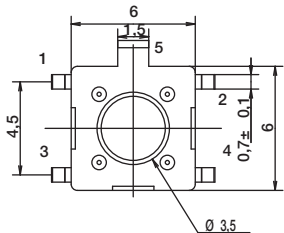
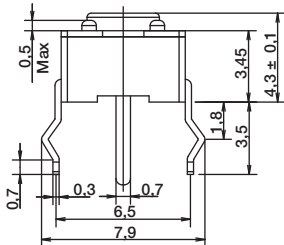
SCHEMATIC



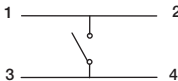
PCB LAYOUT



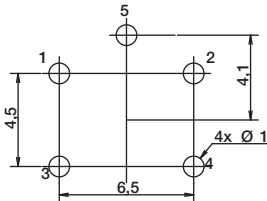
T STRAIGHT WITH ESD PIN



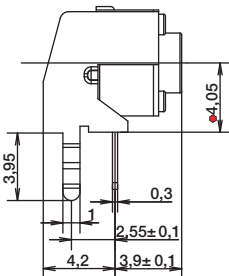
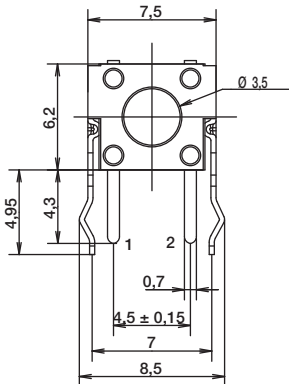
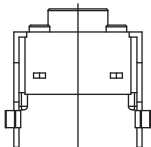
SCHEMATIC



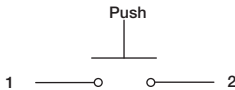
PCB LAYOUT



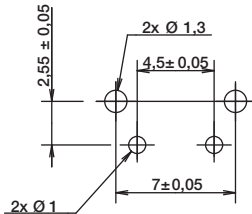
V VERTICAL



SCHEMATIC



PCB LAYOUT



First Angle
Projection

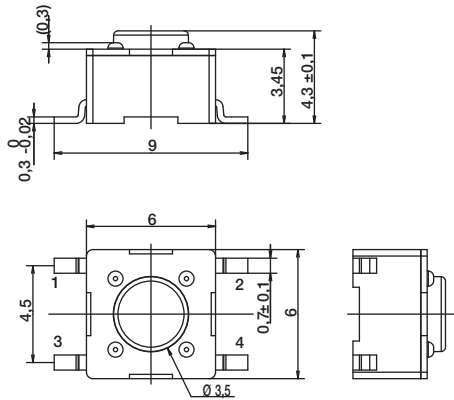


PTS645 Series 6 mm Tact Switches

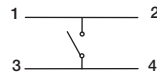
TERMINATION

SMT

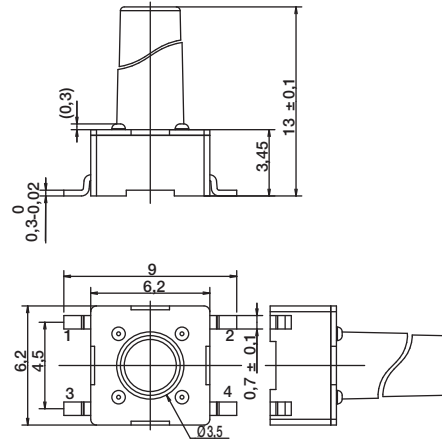
FOR 4.3, 5.0, 7.0, 9.5 MM HEIGHT



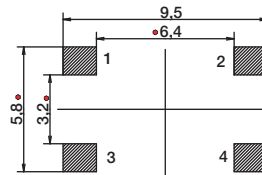
SCHEMATIC



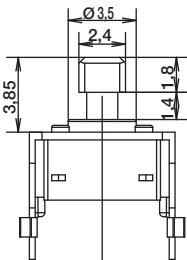
13.0 MM HEIGHT ONLY



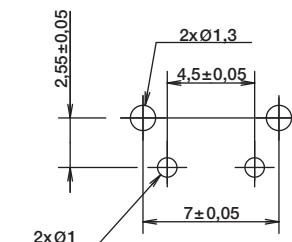
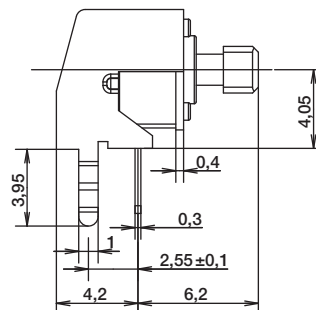
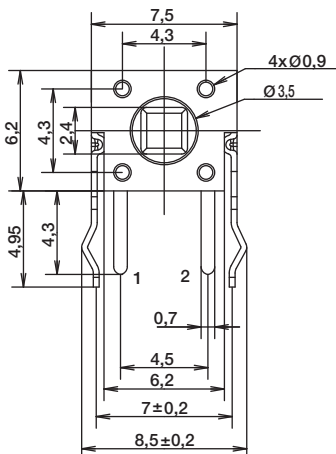
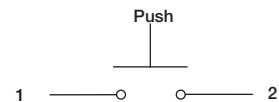
PCB LAYOUT



ACTUATOR SHAPE



SCHEMATIC



RECOMMENDED PCB LAYOUT



First Angle
Projection

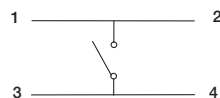
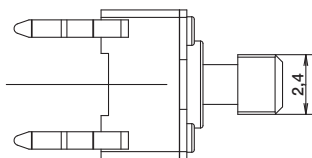


B

Tactile Switches

Tactile Switches

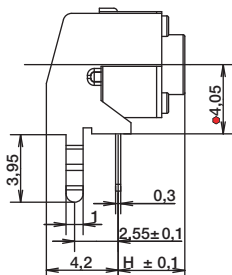
B



Technical drawing of a square plate with four holes. The plate has a width of 6.5 and a height of 4.5. The holes are numbered 1 (top-left), 2 (top-right), 3 (bottom-left), and 4 (bottom-right). The distance between the centers of the holes is 6.5 horizontally and 4.5 vertically. A dimension line indicates the hole diameter is 4x Ø1.

OPTION CODE	FORCE
L	130 grams Black
M	160 grams Blue
H	200 grams Gray
K	260 grams Red

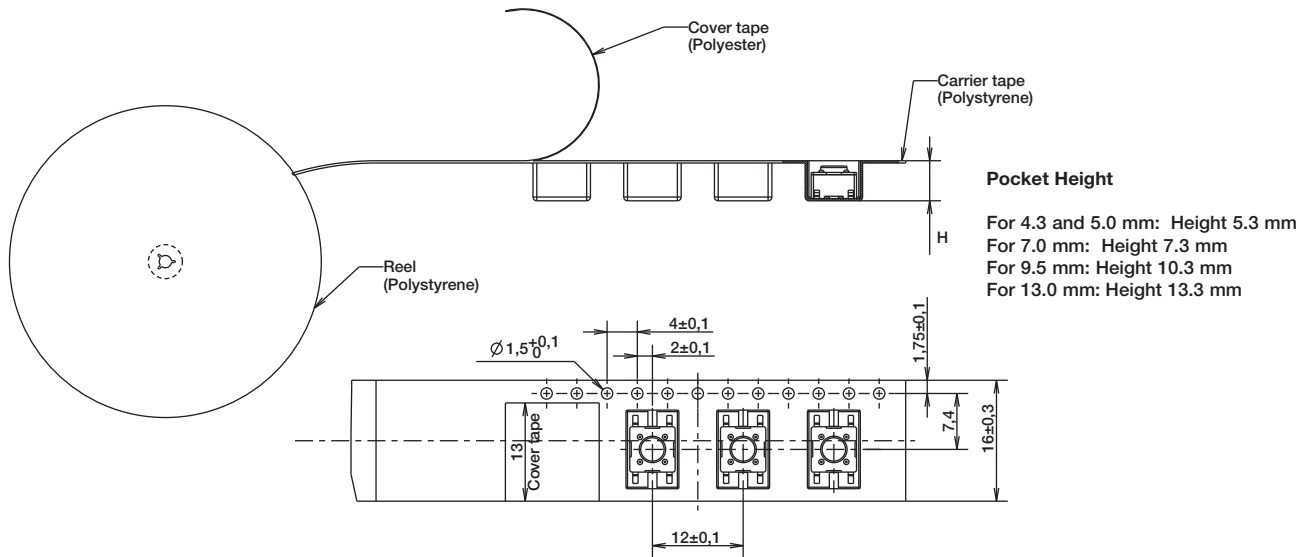
OPTION CODE	DIMENSION H	TERMINATION	SCHEMATIC	
			Without EMC pin	With EMC pin
43	4,3 (.169)	Thru-hole and SMT		
50	5,0 (.197)	Thru-hole and SMT		
70	7,0 (.275)	Thru-hole and SMT		
95	9,5 (.374)	Thru-hole and SMT		
13	13,0 (.512)	SMT		



OPTION CODE	DIMENSION H	TERMINATION	SCHEMATIC	
			Without EMC pin	With EMC pin
31	3,15 (.124)	Vertical		
39	3,85 (.151)	Vertical		1  3
58	5,85 (.230)	Vertical		
83	8,35 (.329)	Vertical		

PTS645 Series 6 mm Tact Switches

TAPE & REEL



B

Tactile Switches

AMEYA360

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