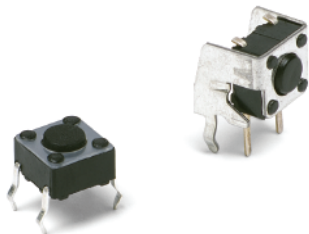


PTS645 Series

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

B

Tactile Switches

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		Actuator Shape		Insertion Type		RoHS compliant and compatible. Silver plated.		
						S Straight T Straight with ESD pin V Vertical		NONE Round actuator, All versions J Square actuator, 2.4 mm side THT versions only (No ESD pin - not available with Termination "T" style)		2 Thru hole SMTR92* Surface mount, tape & reel				
						Actuation Force				Switch height from PCB for S and T only (H dimension see actuator height drawings)				
						L 130 grams M 160 grams H 200 grams K 260 grams				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.



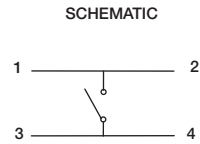
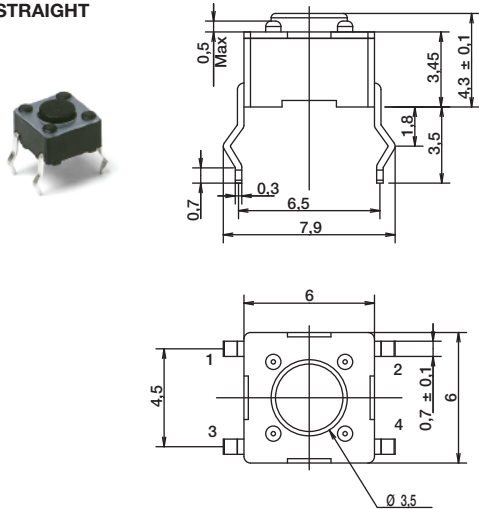
Dimensions are shown: mm
Specifications and dimensions subject to change

PTS645 Series

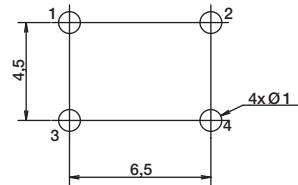
6 mm Tact Switches

TERMINATION

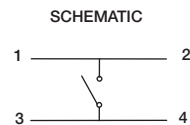
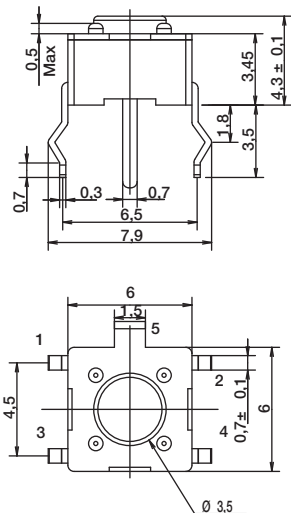
S STRAIGHT



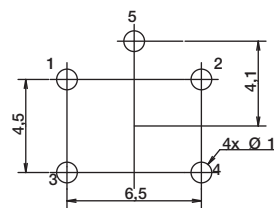
PCB LAYOUT



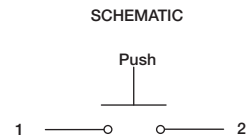
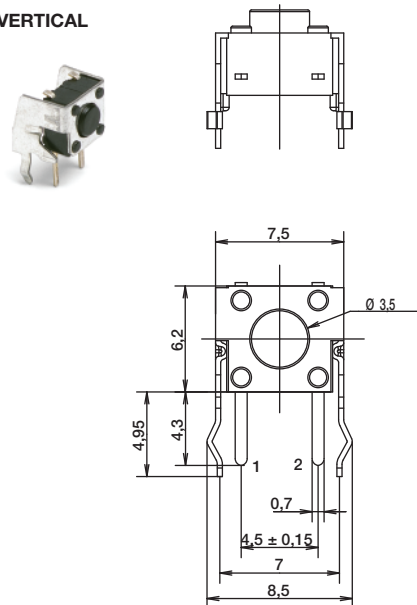
T STRAIGHT WITH ESD PIN



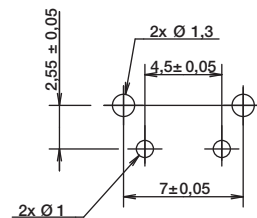
PCB LAYOUT



V VERTICAL



PCB LAYOUT



First Angle
Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

PTS645 Series

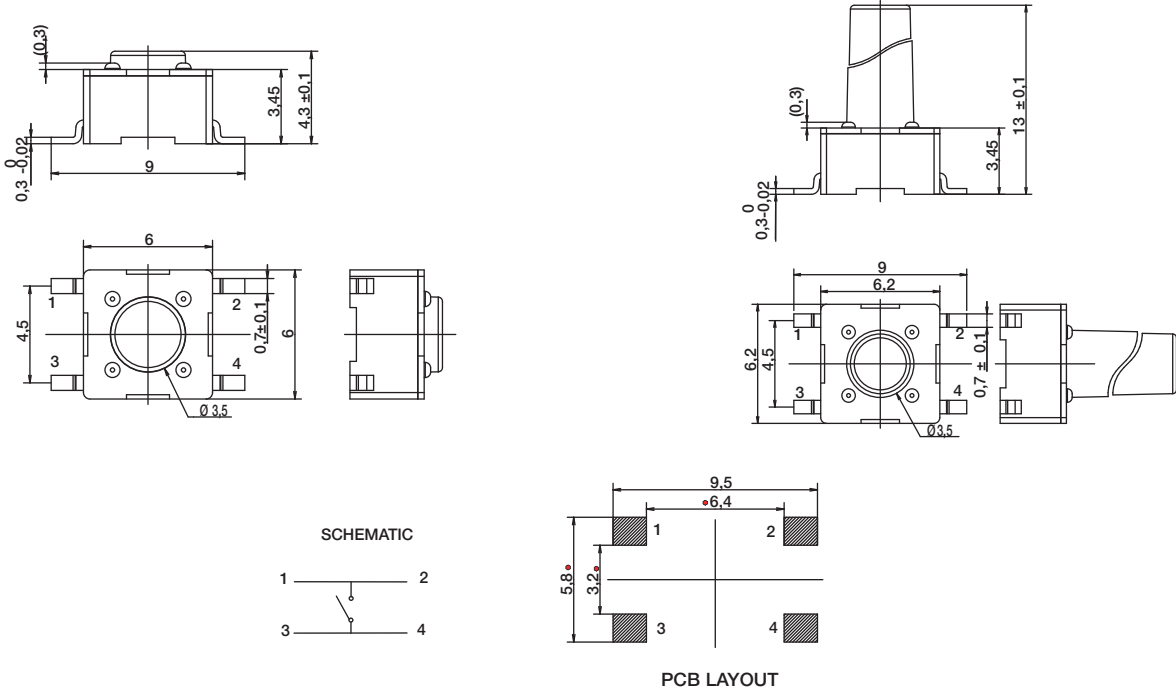
6 mm Tact Switches

TERMINATION

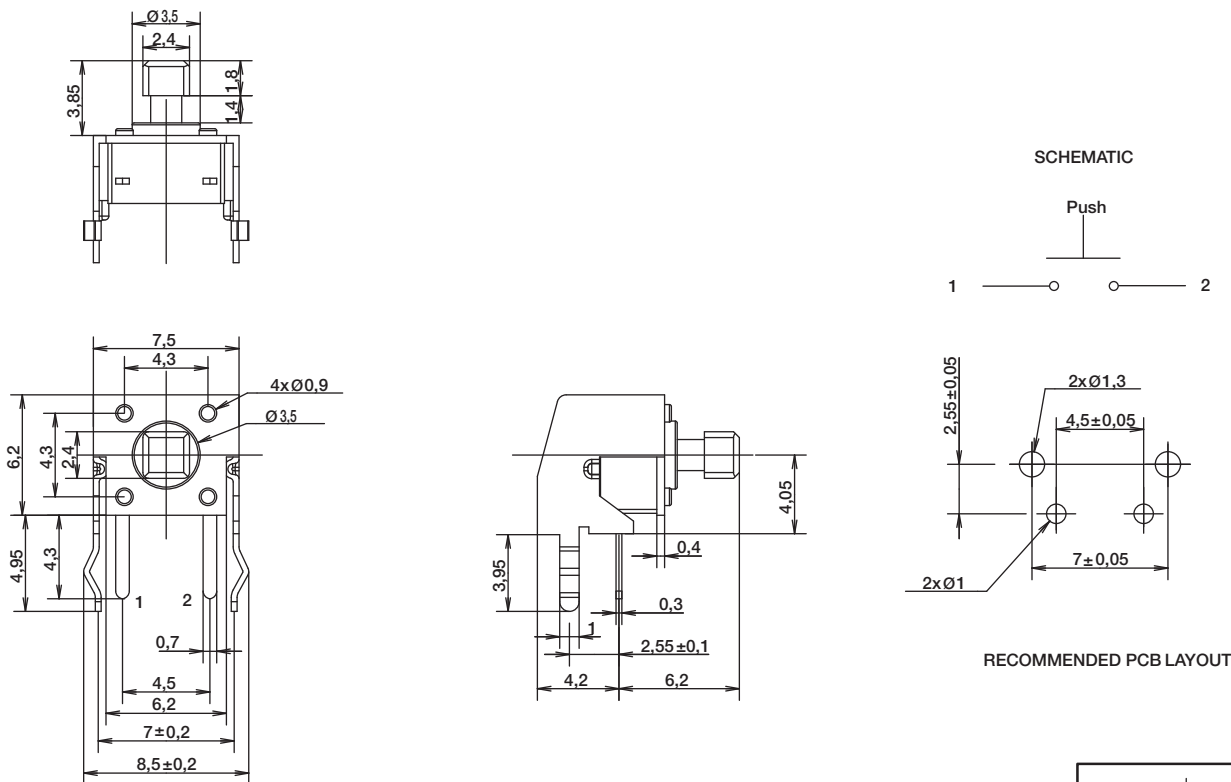
SMT

FOR 4.3, 5.0, 7.0, 9.5 MM HEIGHT

13.0 MM HEIGHT ONLY



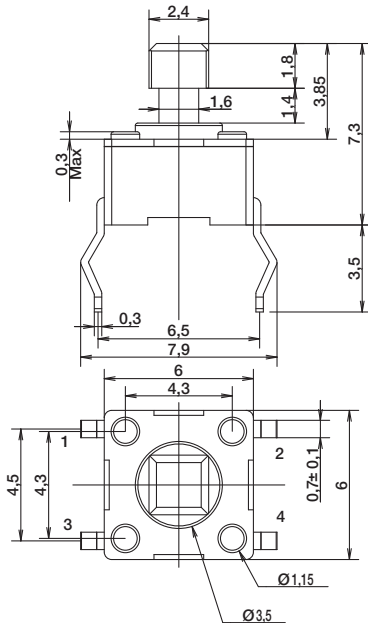
ACTUATOR SHAPE



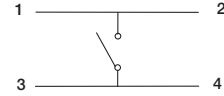
Dimensions are shown: mm
Specifications and dimensions subject to change

PTS645 Series 6 mm Tact Switches

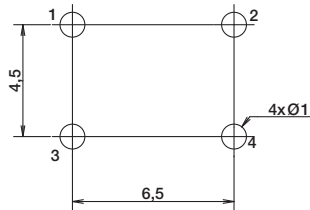
ACTUATOR SHAPE



SCHEMATIC



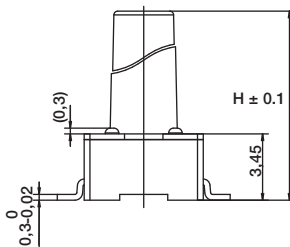
RECOMMENDED PCB LAYOUT



ACTUATION FORCE

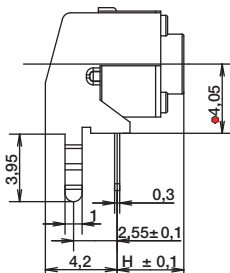
OPTION CODE	FORCE
L	130 grams Black
M	160 grams Blue
H	200 grams Gray
K	260 grams Red

ACTUATOR HEIGHT



Switch height from PCB for S and T only

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		



Switch length from front leads for V only

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

PTS645 Series
6 mm Tact Switches

TAPE & REEL

B

Tactile Switches

