

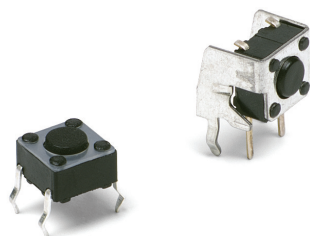


EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

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 Actuator Shape NONE Round actuator, All versions J Square actuator, 2.4 mm side (available for Straight 7,3 mm and Vertical 6,15 mm) Actuation Force L 130 grams M 160 grams H 200 grams K 260 grams 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 and SMT, 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 RoHS compliant and compatible. Silver plated.																

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

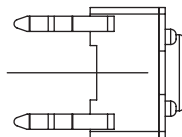
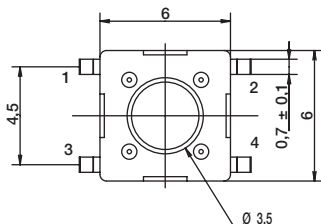
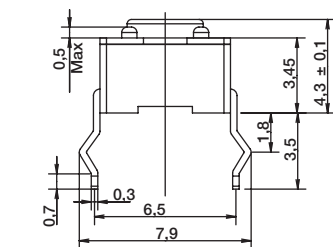


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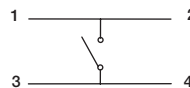
PTS645 Series 6 mm Tact Switches

TERMINATION

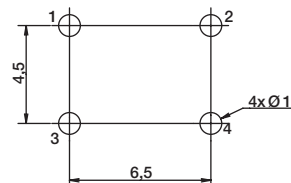
S STRAIGHT



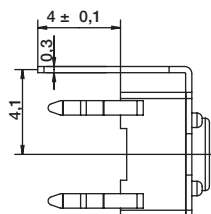
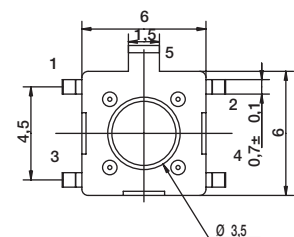
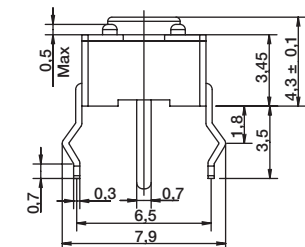
SCHEMATIC



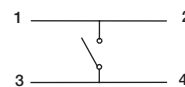
PCB LAYOUT



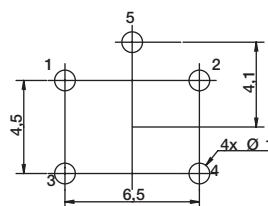
T STRAIGHT WITH ESD PIN



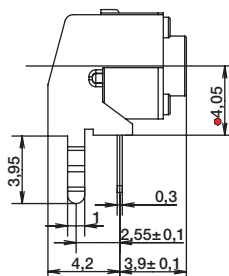
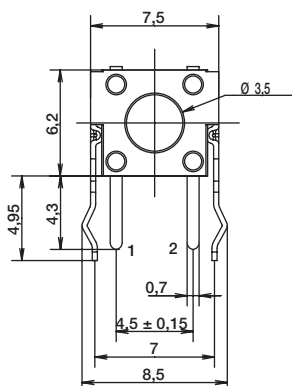
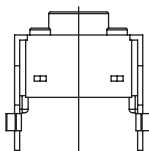
SCHEMATIC



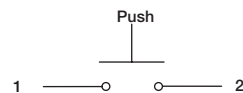
PCB LAYOUT



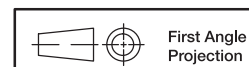
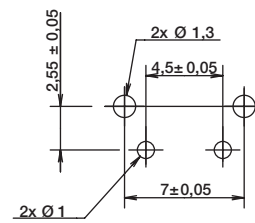
V VERTICAL



SCHEMATIC



PCB LAYOUT



First Angle
Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

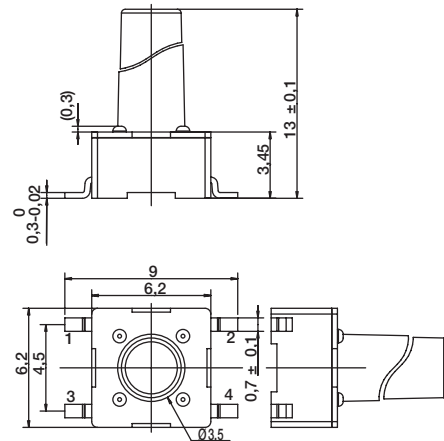
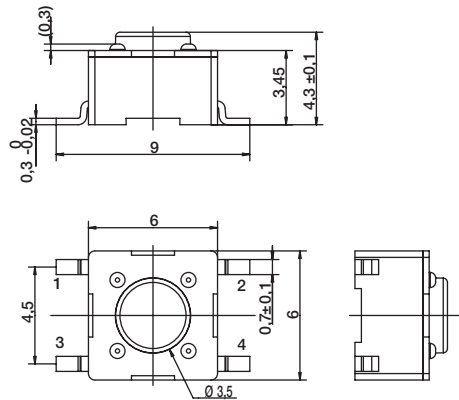
PTS645 Series 6 mm Tact Switches

TERMINATION

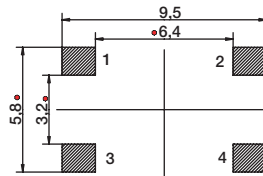
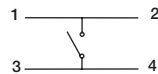
SMT

FOR 4.3, 5.0, 7.0, 9.5 MM HEIGHT

13.0 MM HEIGHT ONLY



SCHEMATIC

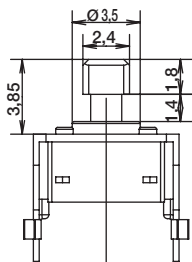


PCB LAYOUT

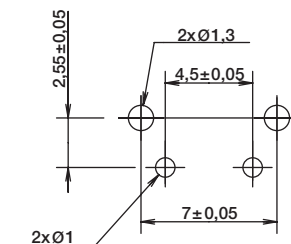
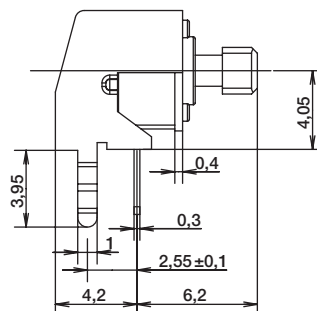
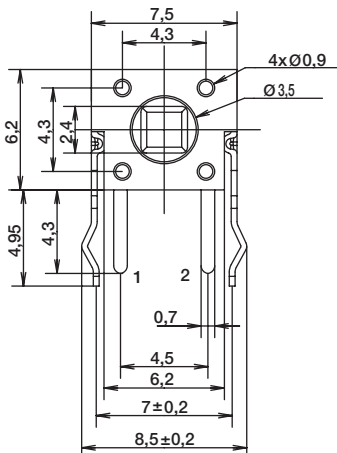
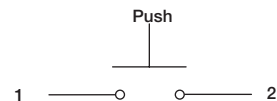
ACTUATOR SHAPE

J SQUARE ACTUATOR

VERTICAL THT - FOR 6,15MM LENGTH ONLY



SCHEMATIC



RECOMMENDED PCB LAYOUT

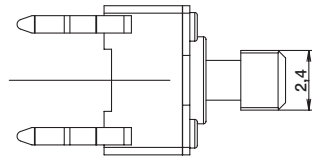
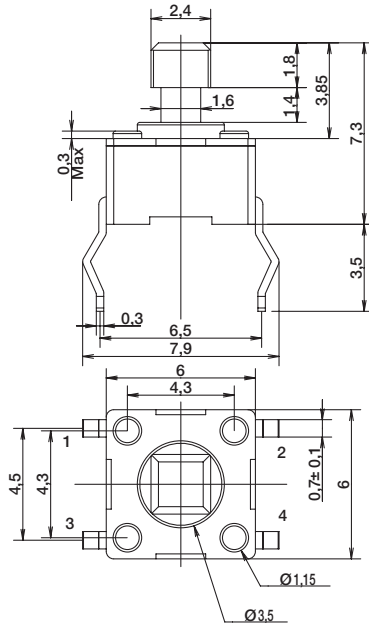


First Angle
Projection

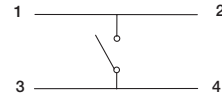
Dimensions are shown: mm
Specifications and dimensions subject to change

ACTUATOR SHAPE

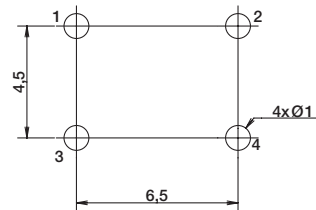
VERTICAL THT - FOR 7,3MM HEIGHT ONLY



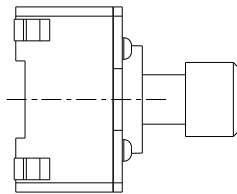
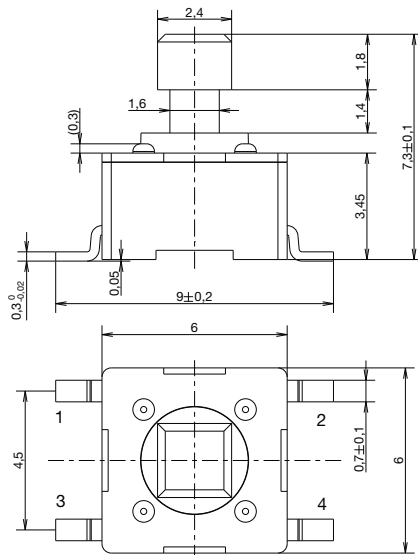
SCHEMATIC



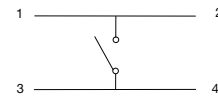
RECOMMENDED PCB LAYOUT



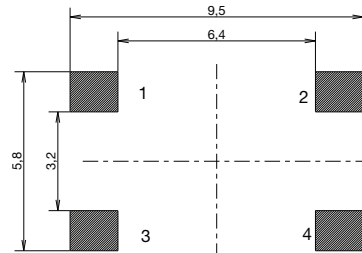
STRAIGHT SMT - FOR 7,3MM HEIGHT ONLY



SCHEMATIC



RECOMMENDED PCB LAYOUT



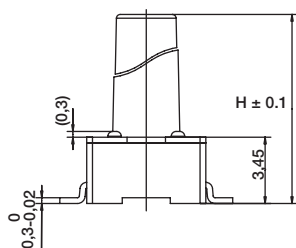
PTS645 Series 6 mm Tact Switches

ACTUATION FORCE

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

ACTUATOR HEIGHT

Tactile Switches

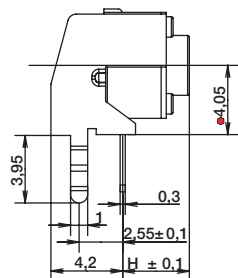


Switch height from PCB for S and T only

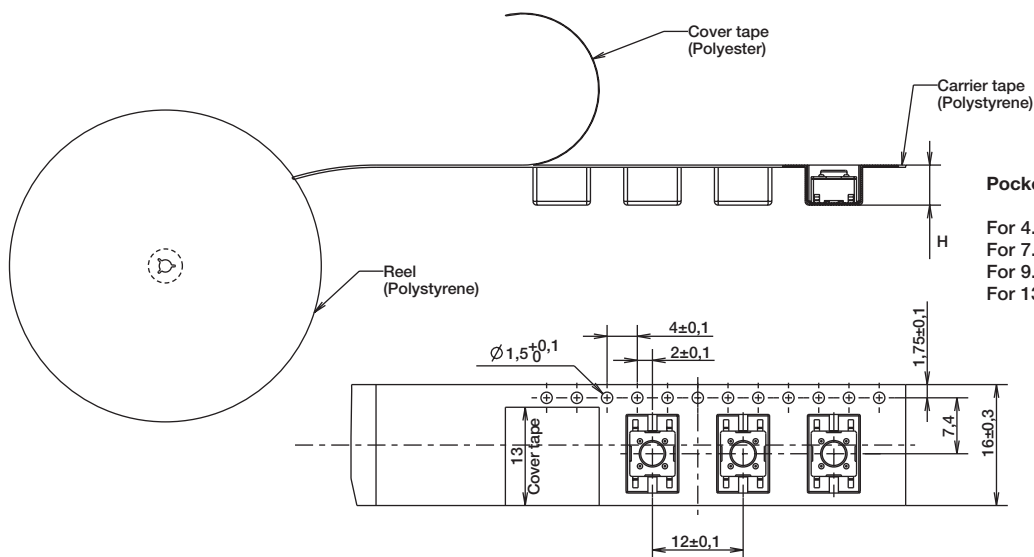
OPTION CODE	DIMENSION H	TERMINATION	SCHEMATIC	
			Without EMC pin	With EMC pin
43	4,3 (.169)	Thru-hole and SMT	1 o — o 2	1 o — o 2
50	5,0 (.197)	Thru-hole and SMT	3 o — o 4	3 o — o 4
70	7,0 (.275)	Thru-hole and SMT		
95	9,5 (.374)	Thru-hole and SMT		
13	13,0 (.512)	SMT		

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		1 o — o 3
39	3,85 (.151)	Vertical		
58	5,85 (.230)	Vertical		
83	8,35 (.329)	Vertical		



TAPE & REEL



Pocket Height

For 4.3 and 5.0 mm: Height 5.3 mm
For 7.0 mm: Height 7.3 mm
For 9.5 mm: Height 10.3 mm
For 13.0 mm: Height 13.3 mm