

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: PTS645 models: 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

NOTE: Specifications listed above are for switches with standard options.
For information on specific and custom switches, consult Customer Service Center.

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.

Materials

BASE: 6/6 nylon or glass filled polyester (PBT) (UL 94V-0).
ACTUATOR: 6/6 nylon or polyacetal (UL 94HB).
COVER PLATE: PTS645S: Polyester or stainless steel.
PTS645T and PTS645V: Tin alloy or stainless steel.
DOME CONTACTS: Phosphor bronze, silver clad.
STATIONARY CONTACTS: Brass, silver plated.
TERMINALS: Brass, silver plated. Insert molded.

Packaging

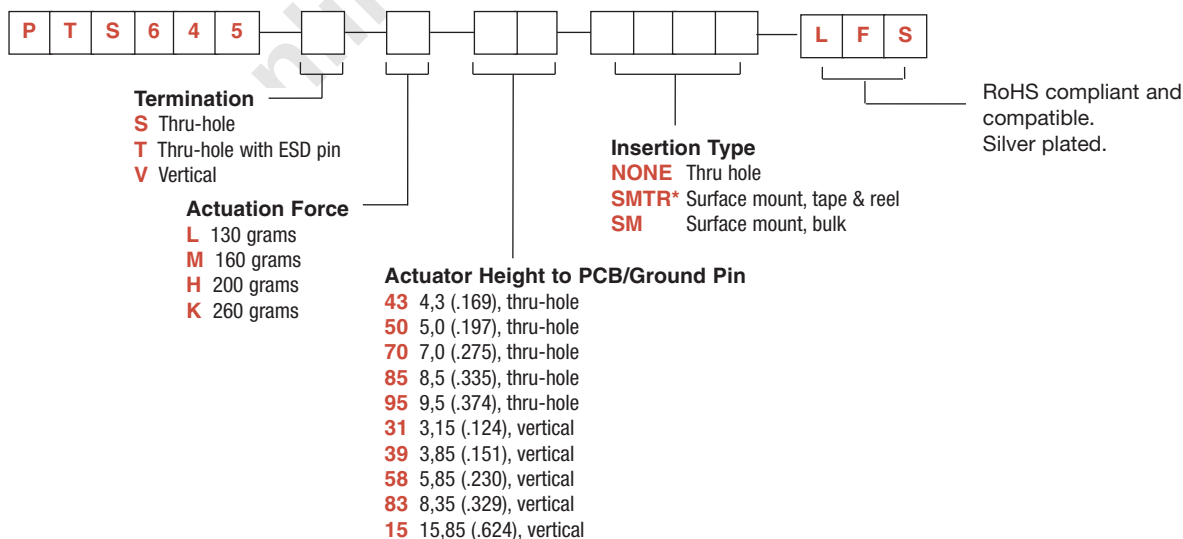
Bulk packaging.

Tape & reel for the SMT type:

Reel of 1000 pcs for the PST645sx43 & 50
Reel of 750pcs for the PTS645Sx70
Reel of 500 pcs for the PTS645Sx95

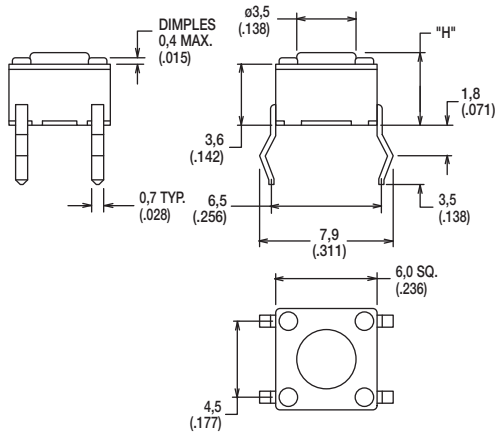
How To Order

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 and place it in the appropriate box.

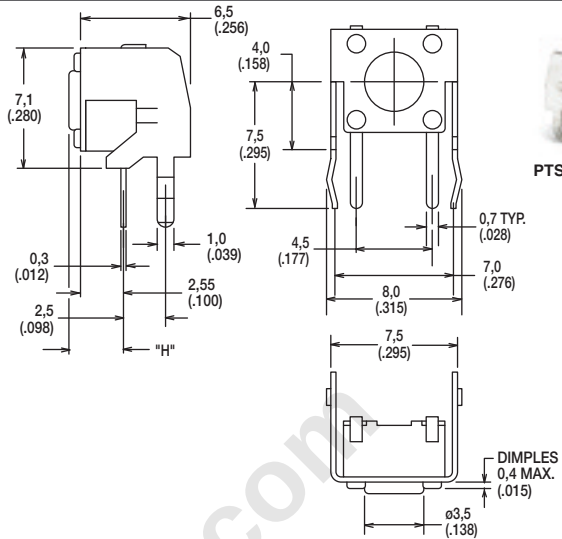


*Only the PTS645 in horizontal type without ESD pin is available in SMT type.

SERIES

PTS645

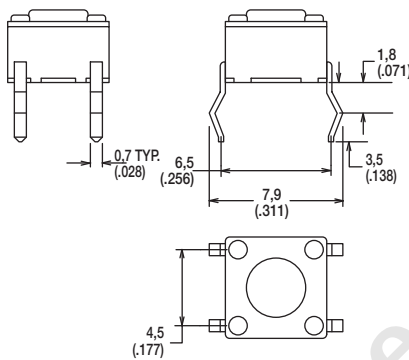
PTS645S Model



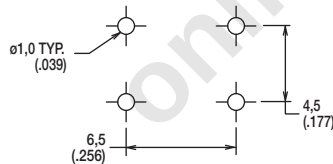
PTS645V Model

TERMINATION

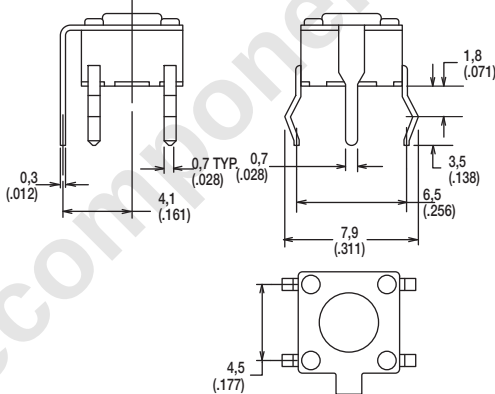
S STRAIGHT



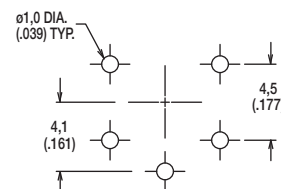
PCB LAYOUT



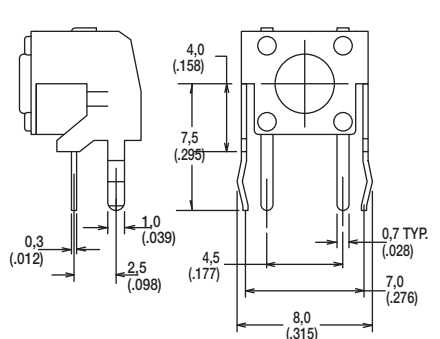
T STRAIGHT WITH EMC PIN



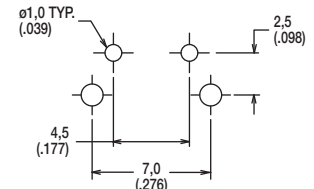
PCB LAYOUT



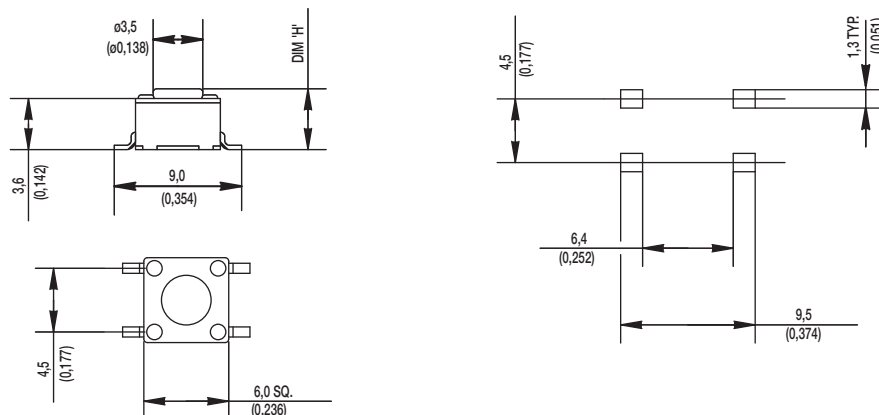
V VERTICAL



PCB LAYOUT



SMT



Dimensions shown in: mm (inch)
Specifications and dimensions subject to change

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ACTUATION FORCE



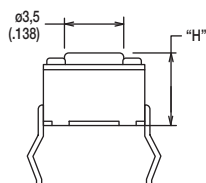
OPTION CODE	FORCE
L	130 grams
M	160 grams
H	200 grams
K	260 grams

ACTUATOR HEIGHT

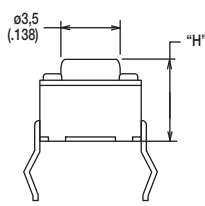


OPTION CODE	HEIGHT "H" or LENGTH "L"	TERMINATION	SCHEMATIC	
			Without EMC pin	With EMC pin
43	4,3 (.169)	Thru-hole	1 ○ 2	1 ○ 2
50	5,0 (.197)	Thru-hole	3 ○ 4	3 ○ 4
70	7,0 (.275)	Thru-hole		
95	9,5 (.374)	Thru-hole		
31	3,15 (.124)	Vertical		1 ○ 3
39	3,85 (.151)	Vertical		
58	5,85 (.230)	Vertical		
83	8,35 (.329)	Vertical		
15	15,85 (.624)	Vertical		

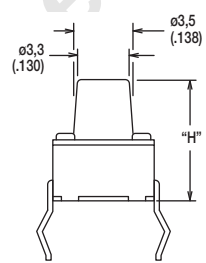
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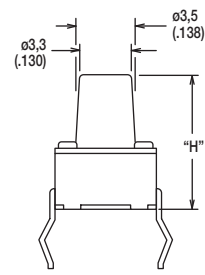
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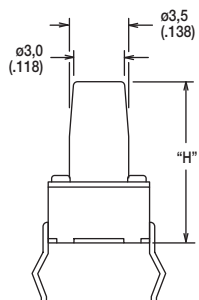
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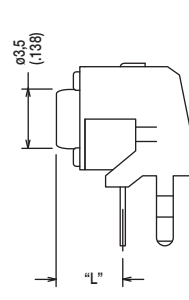
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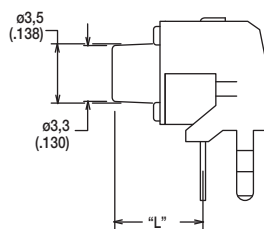
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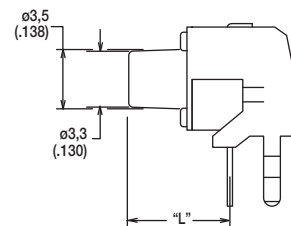
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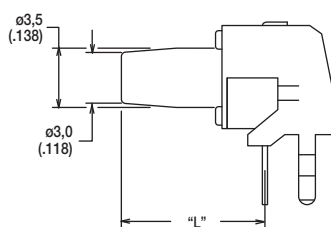
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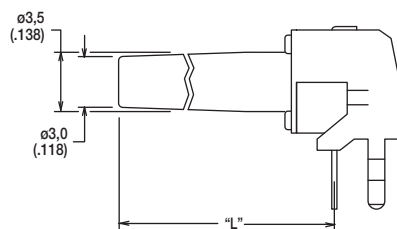
58



83



15



First Angle
Projection