



Specifications

Function	Momentary action	
Contact Arrangement	SPST, N.O.	
Terminals	PC pins	

Mechanical Characteristics

Life Expectancy	100,000 operations
-----------------	--------------------

Electrical Characteristics

Contact Rating	Max. 50mA@12VDC Min. 10µA@1VDC
Dielectric Strength	250 V AC min.
Contact Resistance	100 m Ω max. initial
Insulation Resistance	$10^{11} \Omega$ min.

Environmental Characteristics

Operating Temperature	-40°C to 85°C
Storage Temperature	-40 C to 65 C

Notes

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

The PTS series is not certified for using in Automotive application and no PPAP. However, in the case of some automotive accessories and specific applications for 2 and 3 wheeled vehicles the PTS is widely used and very suitable. Please contact your local C&K representative to discuss your application and the best switch solution.

Description

The PTS645 switch series are 6mm tactile switches, designed to provide those designing for consumer product, instrumentation and computing equipment applications the long-lasting, responsive switch they need. PTS645 switches are compact (6 x 6mm) and are available in a variety of actuator lengths, with a choice of actuation force, allowing you to customize the switch to your product's needs.

Features & Benefits

- Compact size 6 x 6 mm
- Variety of actuator lengths
- Choice of actuation force
- RoHS compliant and compatible

Applications

- Consumer products
- Instrumentation
- Computer products
- Industrial

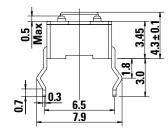
Process

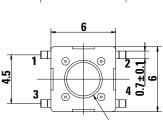
110000				
Soldering	Test 2 times Max. Reflow soldering conditions (Reference standard: J-STD-020) Preheat—150°C-200°C, 60-120 (sec) Peak temperature—260°C Max. 10 (sec) Soldering area temperature—217°C, 60-150 (sec)			



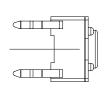


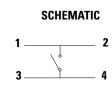
Termination (mm) S Straight

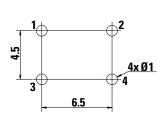




Ø 3.5





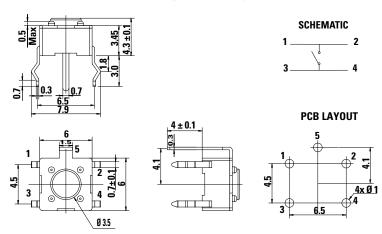


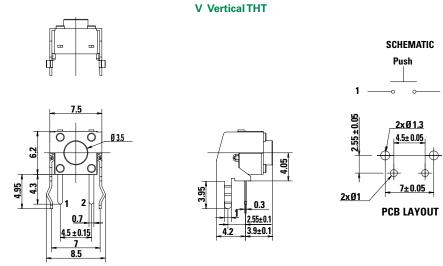
PCB LAYOUT



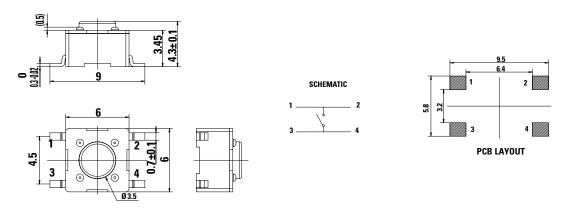






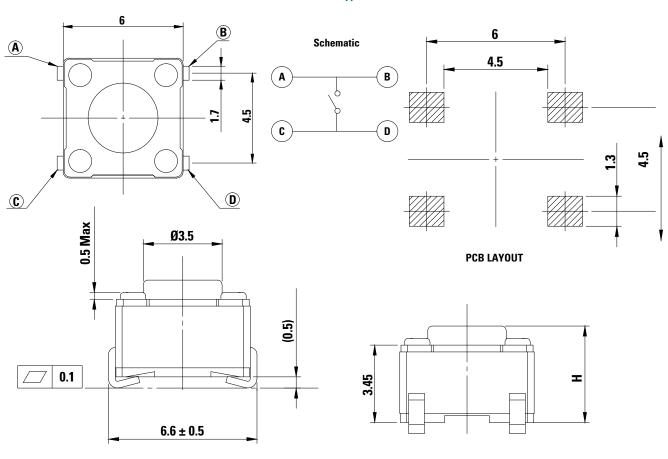


SMT G Type

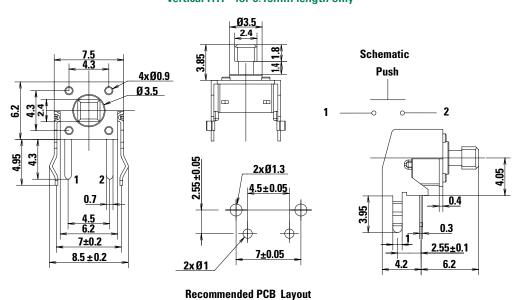








Actuator Shape
J Square Actuator
Vertical THT - for 6.15mm length only



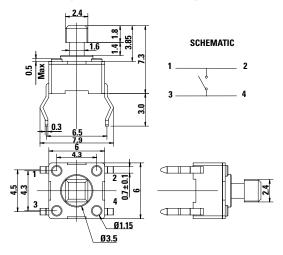


PTS645 Series

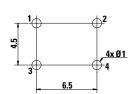
6 mm Tactile Switches



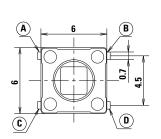
Straight THT - for 7.3mm height only

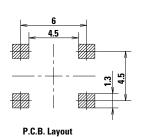


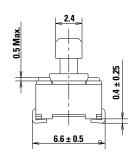
RECOMMENDED PCB LAYOUT

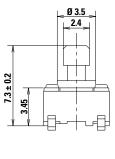


Straight SMT J Type - for 7.3mm height only



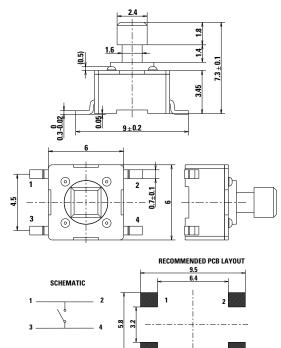




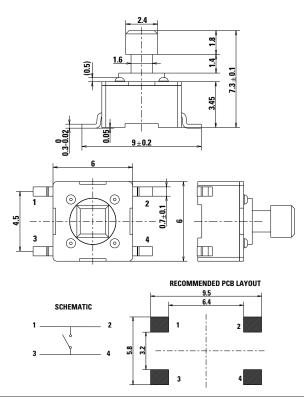




Straight SMT G Type - for 7.3mm height only

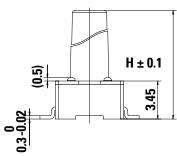


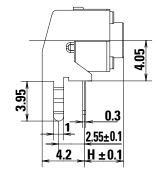
Straight SMT - for 7.3mm height only











Tape Dimension

Option Code	Width Tape	Pocket Height
43	16 ± 0.3	5.3
50		5.5
70		7.3
73		7.6
95	24 ± 0.3	10.3
13		13.3

Actuation Force

Option Code	Force
L	130 grams Black
M	160 grams Blue
Н	200 grams Gray
K	260 grams Red

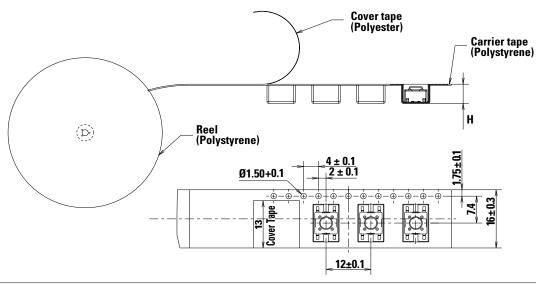
Switch height from PCB for S and T only

Option			Sch	ematic
Code	Dimension H	Termination	Without EMC pin	With EMC pin
43	4.3 (0.169)			
50	5.0 (0.197)	Thru-hole and SMT	10-02	10-1-02
70	7.0 (0.275)			30-1-04
95	9.5 (0.374)		3004	○
13	13.0 (0.512)	SMT		

Switch length from font leads for V only

0 11			Sche	matic
Option Code	Dimension H	Termination	Without EMC pin	With EMC pin
31	3.15 (0.124)	Vertical		
39	3.85 (0.151)			1003
58	5.85 (0.230)			·
83	8.35 (0.329)			

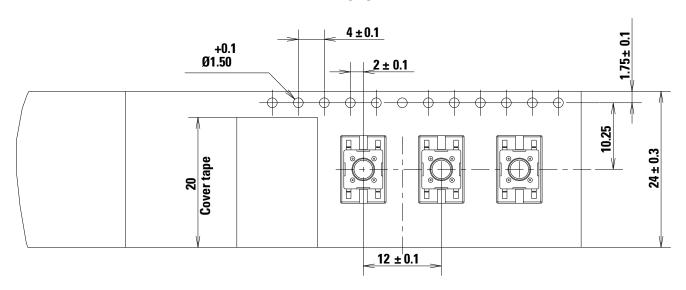
Tape & Reel for SMT G type Versions







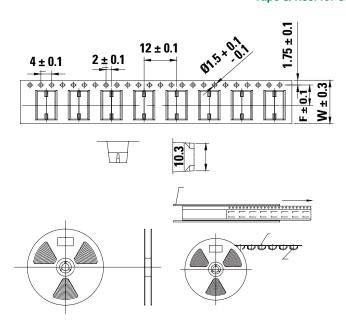
Packaging



Note:

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 700 pieces for 7.3 mm height. Reels of 500 pieces for 9.5 mm height. Reels of 400 pieces for 13.0 mm height.

Tape & Reel for SMT J type Versions



Tape Specifications

Product Height	Carrier Width Tape (W) mm	Center Distance of Carrier Tape (F) mm	pcs/reel	
4.3		7.5	1000	
5.0	16		1000	
7.0	10		700	
7.3			700	
9.5				
11	24	11.5	500	
13				

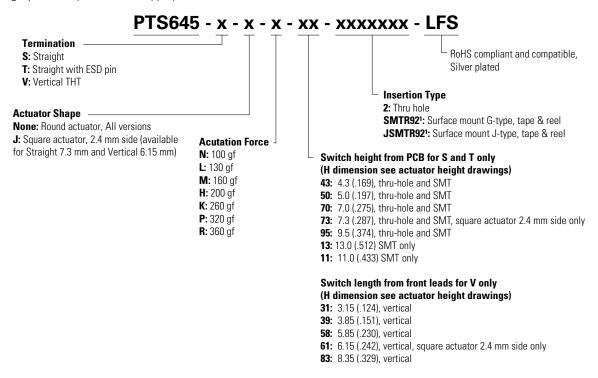
Note:The disc rotates counterclockwise. According to the packing shown in the figure, the braid must not be twisted





Ordering Number

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.



Notes:

1. Only the straight type termination without ESD pin is available in SMT type Long life version has to be created case by case as special part number

Liability Limitation

This datasheet does not provide enough information for applications that require a certain level of quality or safety such as automotive, medical systems, or safety equipement. Please contact customer service for the contractual specification package.

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at http://www.littelfuse.com/disclaimer-electronics.

