

PTS645V Series

6 mm Side Actuated Tactile Switch



Specifications

Function	Momentary action
Contact Arrangement	1 make contact = SPST, N.O.
Terminals	THT and G type for SMT

Electrical Characteristics

Max. Voltage	12 VDC
Max. Current	50 mA
Dielectric Strength	250 V AC
Contact Resistance	≤ 100 mΩ
Insulation Resistance	≥ 100 MΩ
Bounce Time	≤ 5 ms

Environmental Characteristics

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

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 PTS645V series of 6 x 7 mm side-actuated tactile switches is available in both SMT and THT versions. Offered with a range of operating forces, the series combines a compact footprint with robust PCB terminals to deliver reliable tactile performance. It is well suited for applications including access control equipment, industrial controls and instrumentation.

Features & Benefits

- Side-actuated design
- Compact 6 x 7 mm footprint
- Sealed option available
- Robust PCB terminals for secure mounting
- Wide range of operating forces

Applications

- Circuit Breakers
- Industrial Automation
- Power Tools
- Lighting & Building Automation

Process

Soldering	In accordance with J-STD-020 SMT = Reflow soldering THT = Wave soldering
Packaging	SMT: In reels of 650 pieces. Dimensions of reels according to EIA 481B. External diameter 330 mm THT: bulk packaging

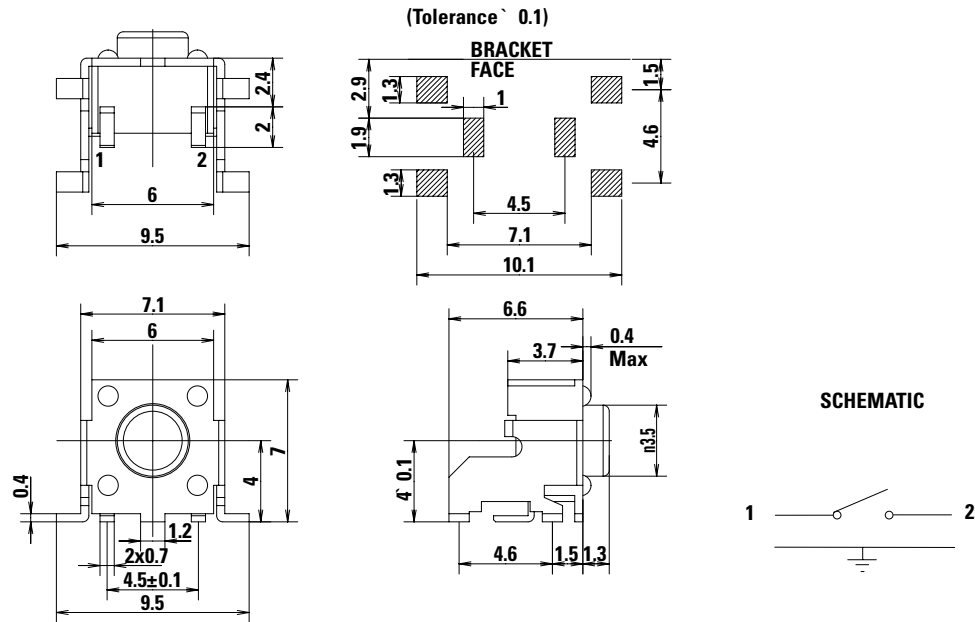
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6 mm Side Actuated Tactile Switch

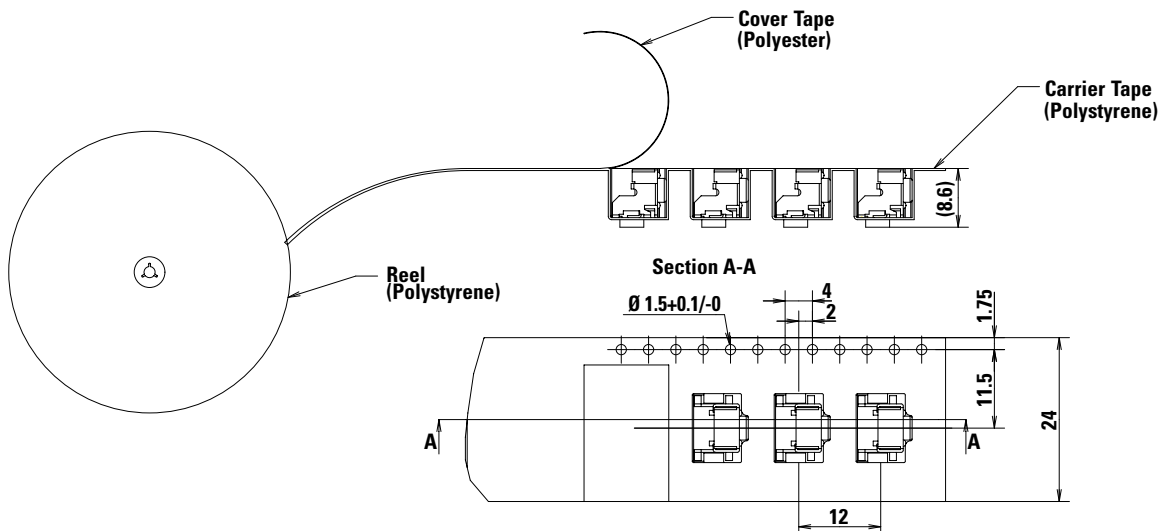


SMT Version Without Peg (mm)

RECOMMENDED PCB LAYOUT



Tape & Reel

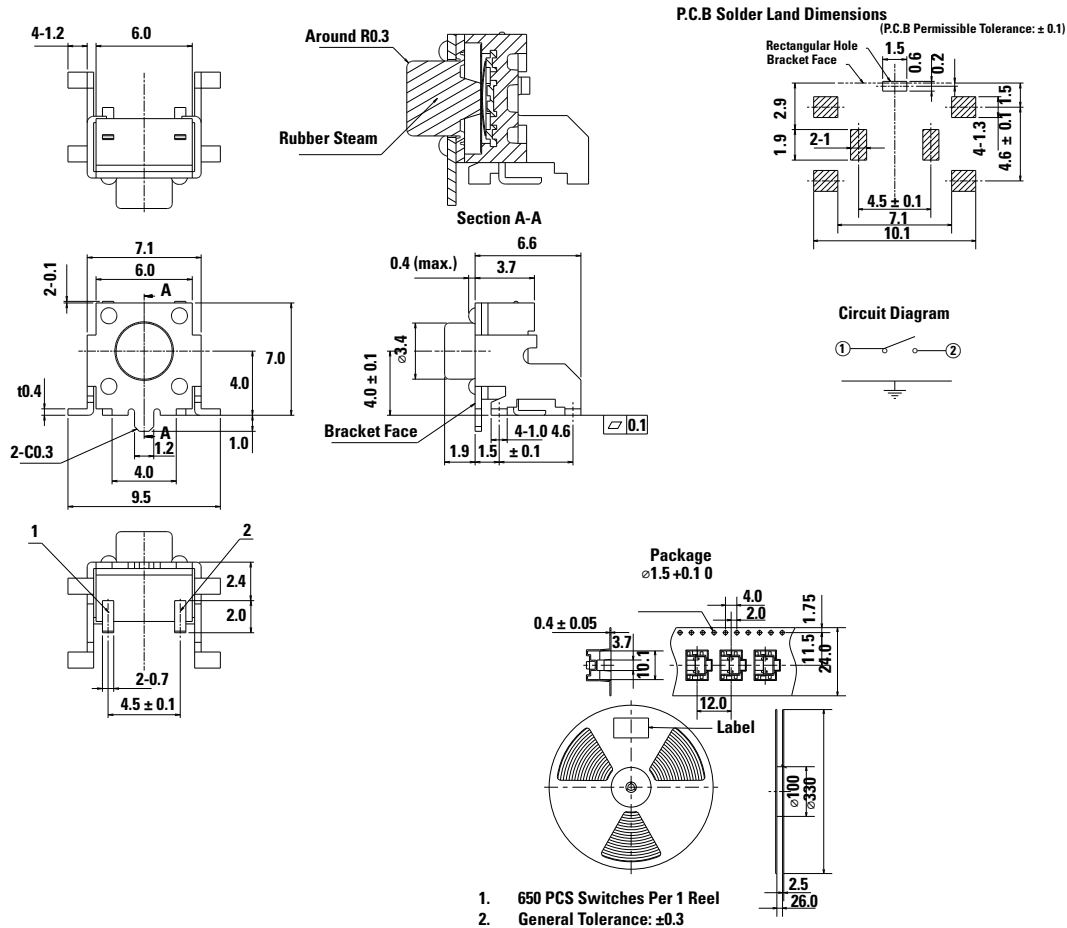


PTS645V Series

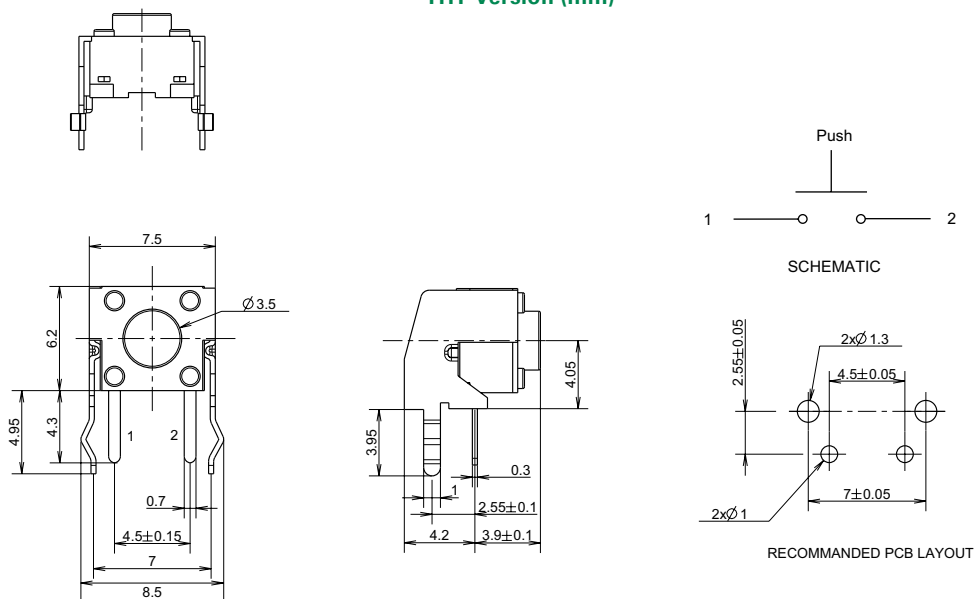
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SMT Version With Peg (mm)



THT Version (mm)



PTS645V Series

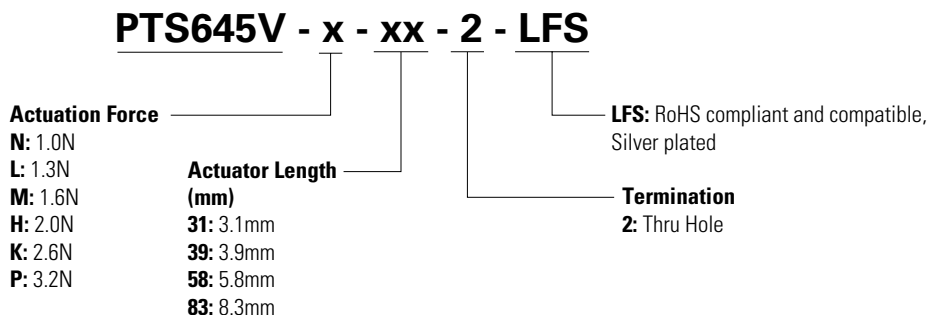
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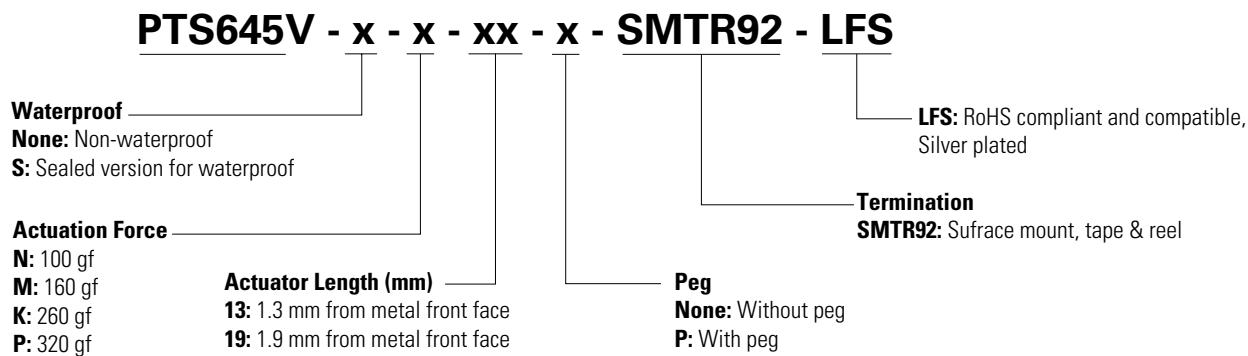
Ordering Number

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 place it in the appropriate box. However, please note that not all the combinations of these options are feasible. For any part numbers that are different from those listed in the Mechanical Characteristics table, please consult your local representative.

Thru-Hole



Surface Mount



Notes:

Sealed version with IP67 is currently only for 1.9mm actuator length. For other lengths, please contact your local representative.

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Mechanical Characteristics

Thru Hole

Supply Status	Littelfuse Orderable Part Number	Description	Contact & Terminals Plating	Terminals	With Peg	Operating Force Fa (Newton)	Operating Life (Operations)	Electrical Travel (mm)	Actuator Length (mm)	Actuator Color
✓	G01569451	PTS645VN39-2 LFS	Silver	Thru Hole	No	1.0 +/- 0.3	100,000	0.25 +0.2/-0.1	3.9	Black
✓	G01381260	PTS645VN83-2 LFS	Silver	Thru Hole	No	1.0 +/- 0.3	100,000	0.25 +0.2/-0.1	8.3	Black
✓	Y97HS12A1RAFP	PTS645VL31-2 LFS	Silver	Thru Hole	No	1.3 +/-0.3	100,000	0.25 +0.2/-0.1	3.1	Black
✓	Y97HS12A1SAFP	PTS645VL39-2 LFS	Silver	Thru Hole	No	1.3 +/-0.3	100,000	0.25 +0.2/-0.1	3.9	Black
✓	Y97HS12A1TAFP	PTS645VL58-2 LFS	Silver	Thru Hole	No	1.3 +/-0.3	100,000	0.25 +0.2/-0.1	5.8	Black
✓	Y97HS12A1VAFP	PTS645VL83-2 LFS	Silver	Thru Hole	No	1.3 +/-0.3	100,000	0.25 +0.2/-0.1	8.3	Black
✓	Y97HS12A2RAFP	PTS645VM31-2 LFS	Silver	Thru Hole	No	1.6 +/-0.3	100,000	0.25 +0.2/-0.1	3.1	Blue
✓	Y97HS12A2SAFP	PTS645VM39-2 LFS	Silver	Thru Hole	No	1.6 +/-0.3	100,000	0.25 +0.2/-0.1	3.9	Blue
✓	Y97HS12A2TAFP	PTS645VM58-2 LFS	Silver	Thru Hole	No	1.6 +/-0.3	100,000	0.25 +0.2/-0.1	5.8	Blue
✓	Y97HS12A2VAFP	PTS645VM83-2 LFS	Silver	Thru Hole	No	1.6 +/-0.3	100,000	0.25 +0.2/-0.1	8.3	Blue
✓	Y97HS12A4RAFP	PTS645VH31-2 LFS	Silver	Thru Hole	No	2.0 +/- 0.5	100,000	0.25 +0.2/-0.1	3.1	Gray
✓	Y97HS12A4SAFP	PTS645VH39-2 LFS	Silver	Thru Hole	No	2.0 +/- 0.5	100,000	0.25 +0.2/-0.1	3.9	Gray
✓	Y97HS12A4TAFP	PTS645VH58-2 LFS	Silver	Thru Hole	No	2.0 +/- 0.5	100,000	0.25 +0.2/-0.1	5.8	Gray
✓	Y97HS12A4VAFP	PTS645VH83-2 LFS	Silver	Thru Hole	No	2.0 +/- 0.5	100,000	0.25 +0.2/-0.1	8.3	Gray
✓	Y97HS12A5RAFP	PTS645VK31-2 LFS	Silver	Thru Hole	No	2.6 +/-0.5	100,000	0.25 +0.2/-0.1	3.1	Red
✓	Y97HS12A5SAFP	PTS645VK39-2 LFS	Silver	Thru Hole	No	2.6 +/-0.5	100,000	0.25 +0.2/-0.1	3.9	Red
✓	Y97HS12A5TAFP	PTS645VK58-2 LFS	Silver	Thru Hole	No	2.6 +/-0.5	100,000	0.25 +0.2/-0.1	5.8	Red
✓	Y97HS12A5VAFP	PTS645VK83-2 LFS	Silver	Thru Hole	No	2.6 +/-0.5	100,000	0.25 +0.2/-0.1	8.3	Red

SMT

Supply Status	Littelfuse Orderable Part Number	Description	Contact & Terminals Plating	Terminals	With Peg	Operating Force Fa (Newton)	Operating Life (Operations)	Electrical Travel (mm)	Actuator Length (mm)	Actuator Color	Sealing
✓	G01197127	PTS645VSN19PSMTR92 LFS	Silver	G type for SMT	Yes	1.0 +/- 0.3	100,000	0.35 +0.2/-0.1	1.9	Gray	IP67
✓	Y97HS24B0PCFP	PTS645VN13SMTR92 LFS	Silver	G type for SMT	No	1.0 +/- 0.3	100,000	0.25 +0.2/-0.1	1.3	Dark Gray	none
✓	Y97HS24B2PCFP	PTS645VM13SMTR92 LFS	Silver	G type for SMT	No	1.6 +/-0.3	100,000	0.25 +0.2/-0.1	1.3	Yellow Green	none
✓	GSPTS0073	PTS645VSM19PSMTR92 LFS	Silver	G type for SMT	Yes	1.6 +/-0.3	100,000	0.35 +0.2/-0.1	1.9	Black	IP67
✓	G01197128	PTS645VSK19PSMTR92 LFS	Silver	G type for SMT	Yes	2.6 +/-0.5	100,000	0.35 +0.2/-0.1	1.9	Red	IP67
✓	G01197130	PTS645VSP19PSMTR92 LFS	Silver	G type for SMT	Yes	3.2 +/- 0.7	100,000	0.35 +0.2/-0.1	1.9	Yellow	IP67

Notes: Supply status: ✓ : Available for ordering;

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