

# Tactile Switches



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

- **Consumer products**
- **Instrumentation**
- **Computer products**
- **Industrial**

FUNCTION: Momentary action  
CONTACT ARRANGEMENT: SPST, N.O.  
TERMINALS: PC pins

ACTUATION FORCE: 130 grams, 160 grams, 200 grams, 260 grams  
LIFE EXPECTANCY: 100.000 operations.

CONTACT RATING: 50 mA @ 12 V DC.  
DIELECTRIC STRENGTH: 250 V AC min.  
CONTACT RESISTANCE: 100 mΩ max. initial.  
INSULATION RESISTANCE: 10<sup>11</sup> Ω min.

OPERATING TEMPERATURE:

- Thru-hole and SMT with J actuator shape: -20°C to 70°C
- SMT (except for J actuator shape): -20°C to 85°C

**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.

Bulk packaging.

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

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

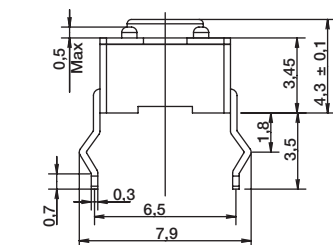
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



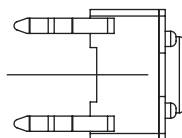
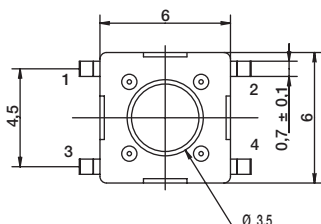
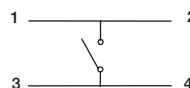
# PTS645 Series 6 mm Tact Switches

## TERMINATION

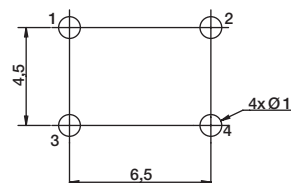
### S STRAIGHT



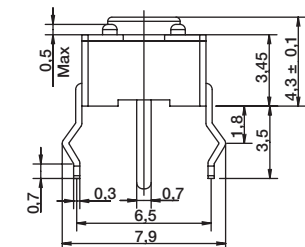
SCHEMATIC



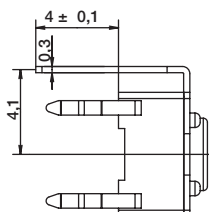
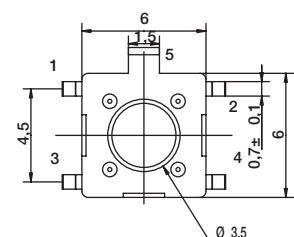
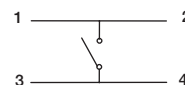
PCB LAYOUT



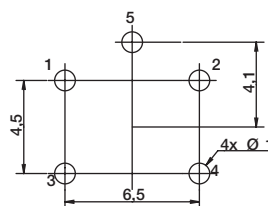
### T STRAIGHT WITH ESD PIN



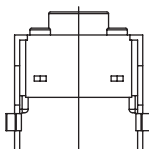
SCHEMATIC



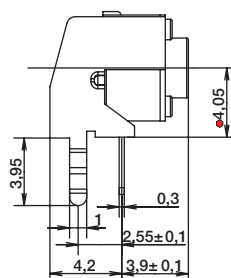
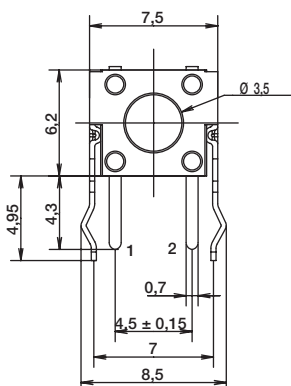
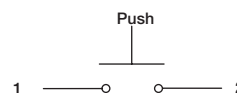
PCB LAYOUT



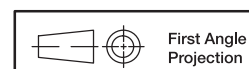
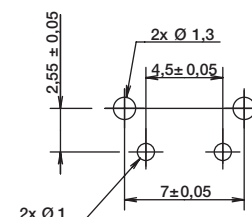
### V VERTICAL



SCHEMATIC



PCB LAYOUT

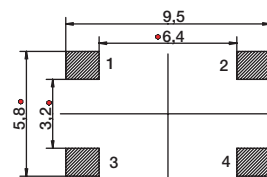
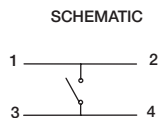
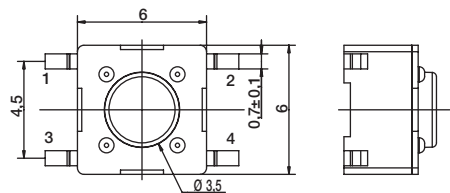
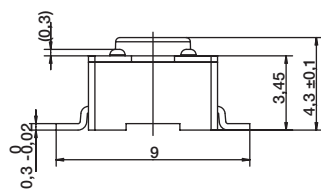


First Angle  
Projection

# PTS645 Series 6 mm Tact Switches

## TERMINATION

### SMT

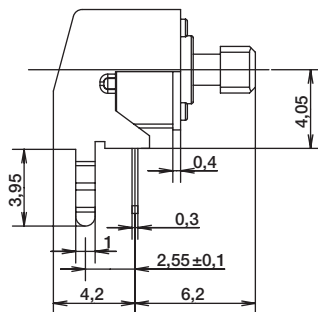
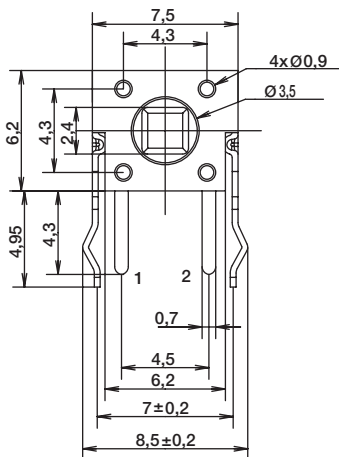
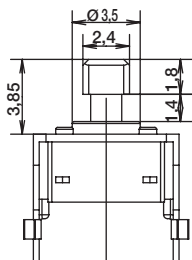


PCB LAYOUT

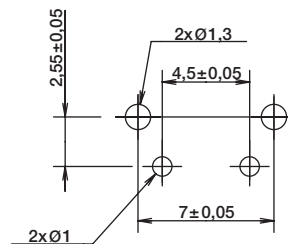
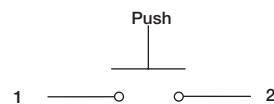
## ACTUATOR SHAPE

### J SQUARE ACTUATOR

VERTICAL THT - FOR 6,15MM LENGTH ONLY



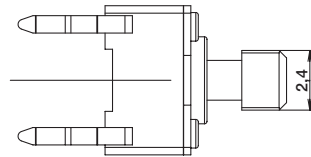
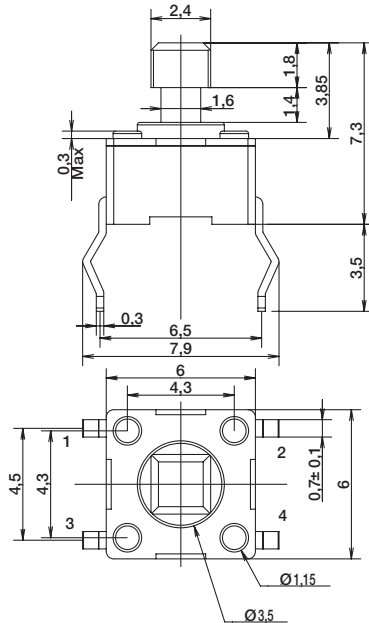
SCHEMATIC



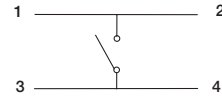
RECOMMENDED PCB LAYOUT

## ACTUATOR SHAPE

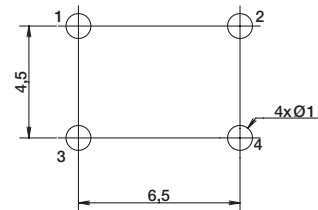
### VERTICAL THT - FOR 7,3MM HEIGHT ONLY



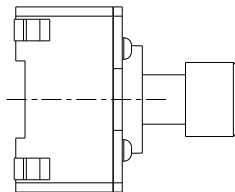
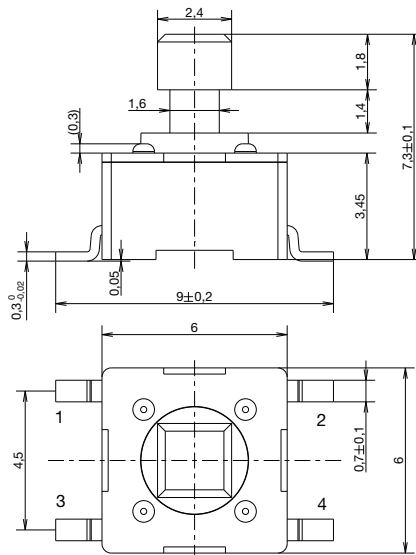
SCHEMATIC



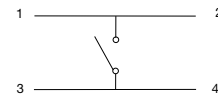
RECOMMENDED PCB LAYOUT



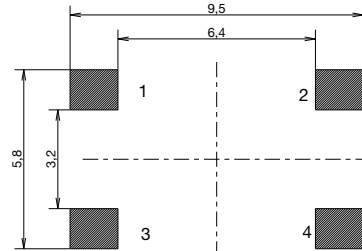
### STRAIGHT SMT - FOR 7,3MM HEIGHT ONLY



SCHEMATIC



RECOMMENDED PCB LAYOUT



# PTS645 Series 6 mm Tact Switches

## ACTUATION FORCE

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

## ACTUATOR HEIGHT

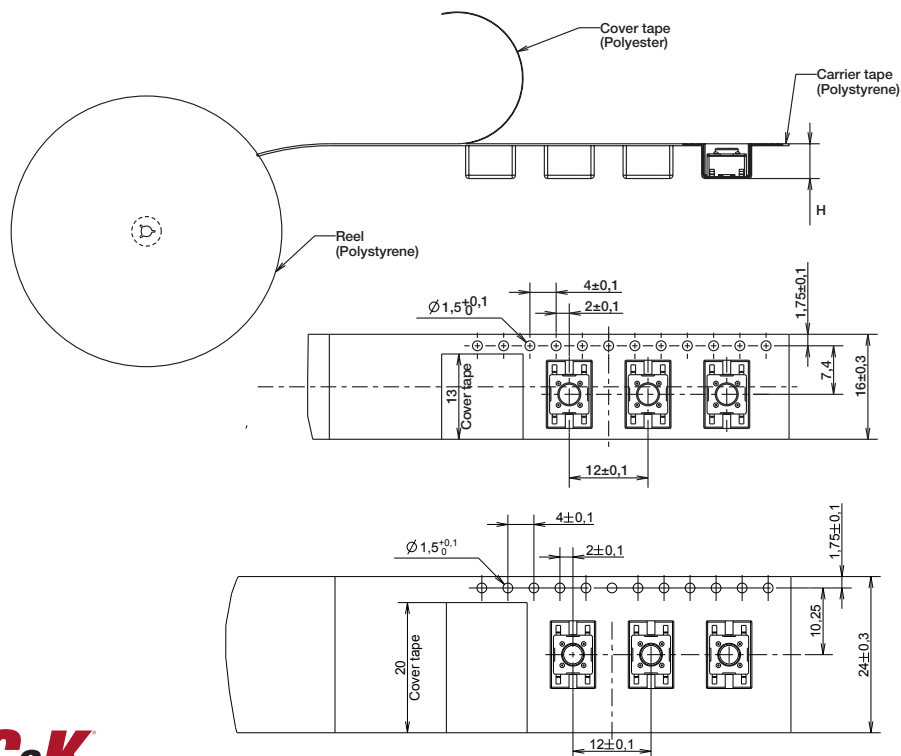
Switch height from PCB for S and T only

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

Switch length from front leads for V only

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

## TAPE & REEL FOR SMT VERSIONS



OPTION CODE	WIDTH TAPE	POCKET HEIGHT
<b>43</b>	16 ± 0,3	5,3
<b>50</b>	16 ± 0,3	5,3
<b>70</b>	16 ± 0,3	7,3
<b>73</b>	16 ± 0,3	7,6
<b>95</b>	24 ± 0,3	10,3
<b>13</b>	24 ± 0,3	13,3

# Mouser Electronics

Authorized Distributor

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## C&K Switches:

[PTS645SL95](#) [PTS645SL43](#) [PTS645SL70](#) [PTS645SL50](#) [PTS645SH43](#) [PTS645SH70](#) [PTS645SH95](#) [PTS645SH50](#)  
[PTS645SL43SM](#) [PTS645TJL73](#) [PTS645SJL73](#) [PTS645TH43](#) [PTS645TH50](#) [PTS645TH95](#) [PTS645TH70](#)  
[PTS645VL83](#) [PTS645VL31](#) [PTS645VL15](#) [PTS645VL58](#) [PTS645VL39](#) [PTS645SH43SM](#) [PTS645TL95](#) [PTS645TL70](#)  
[PTS645TL43](#) [PTS645TL50](#) [PTS645VH39](#) [PTS645VH83](#) [PTS645VH15](#) [PTS645VH58](#) [PTS645VH31](#)  
[PTS645SM43SMTR LFS](#) [PTS645SH70 LFS](#) [PTS645VL39 LFS](#) [PTS645SL50 LFS](#) [PTS645SJL73 LFS](#)  
[PTS645SM43TR LFS](#) [PTS645VH58 LFS](#) [PTS645VL58 LFS](#) [PTS645VL83 LFS](#) [PTS645TL43 LFS](#) [PTS645VH15 LFS](#)  
[PTS645VH83 LFS](#) [PTS645SK50TR LFS](#) [PTS645SL70TR LFS](#) [PTS645SM50TR LFS](#) [PTS645SH95 LFS](#)  
[PTS645SK43 LFS](#) [PTS645TL70 LFS](#) [PTS645SL70 LFS](#) [PTS645VH39 LFS](#) [PTS645TL50 LFS](#) [PTS645SH50 LFS](#)  
[PTS645VL15 LFS](#) [PTS645SK50 LFS](#) [PTS645TH50 LFS](#) [PTS645VH31 LFS](#) [PTS645SK43TR LFS](#)  
[PTS645SL50SMTR LFS](#) [PTS645SJH73 LFS](#) [PTS645TH43 LFS](#) [PTS645SL43 LFS](#) [PTS645SH43SMTR LFS](#)  
[PTS645SK95 LFS](#) [PTS645SL95 LFS](#) [PTS645VJL61 LFS](#) [PTS645VK39 LFS](#) [PTS645SL17LFS](#) [PTS645SM43LFS](#)  
[PTS645SM50LFS](#) [PTS645SM70LFS](#) [PTS645SM95LFS](#) [PTS645SH43LFS](#) [PTS645SK70LFS](#) [PTS645VM15LFS](#)  
[PTS645VM31LFS](#) [PTS645VM39LFS](#) [PTS645VM58LFS](#) [PTS645VM83LFS](#) [PTS645VK15LFS](#) [PTS645VK31LFS](#)  
[PTS645VK58LFS](#) [PTS645VK83LFS](#) [PTS645SM50SMTRLFS](#) [PTS645SH50SMTRLFS](#) [PTS645SK43SMTRLFS](#)  
[PTS645SK50SMTRLFS](#) [PTS645VJM61LFS](#) [PTS645VJH61LFS](#) [PTS645VJK61LFS](#) [PTS645SK50-2 LFS](#)  
[PTS645SM43-2 LFS](#) [PTS645VK31-2 LFS](#) [PTS645VM58-2 LFS](#) [PTS645SL95-2 LFS](#) [PTS645VH83-2 LFS](#)  
[PTS645SL50SMTR 92 LFS](#) [PTS645VH31-2 LFS](#) [PTS645VK83-2 LFS](#) [PTS645SH43-2 LFS](#) [PTS645SH43SMTR 92](#)  
[LFS](#)