

#### 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 m $\Omega$  max. initial. INSULATION RESISTANCE: 10"  $\Omega$  min.

#### **Environmental**

#### **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

#### **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

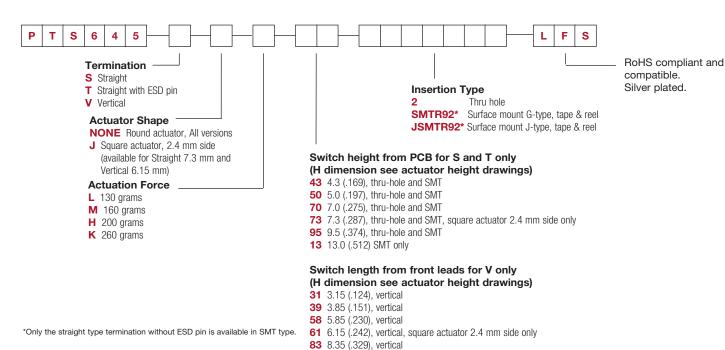
Reels of 700 pieces for 7.3 mm height

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.

#### **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.



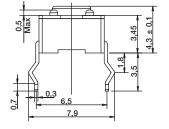
G&K

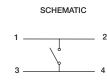
Dimensions are shown: mm Specifications and dimensions subject to change

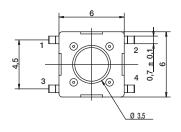
### **TERMINATION**

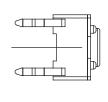
#### **S** STRAIGHT

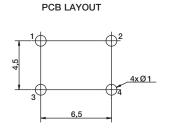




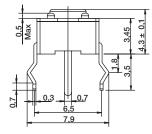


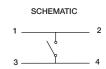


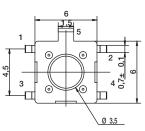


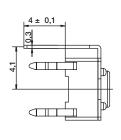


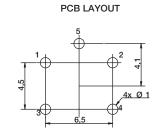
#### T STRAIGHT WITH ESD PIN







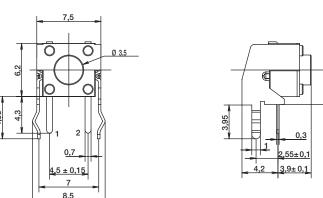


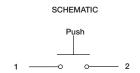


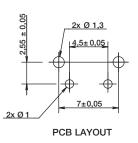
#### V VERTICAL











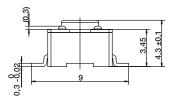


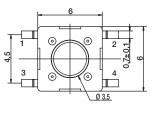
Dimensions are shown: mm Specifications and dimensions subject to change



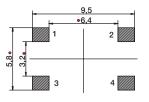
14 Apr 20





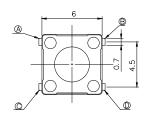




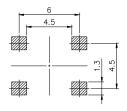


PCB LAYOUT

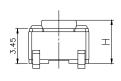
## **SMT J Type**







0.5Max ∠
√
 0.1 6.6±0.5











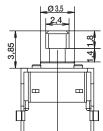
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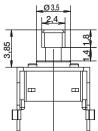
### **ACTUATOR SHAPE**

#### J SQUARE ACTUATOR

#### **VERTICAL THT - FOR 6.15MM LENGTH ONLY**

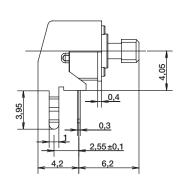
4xØ0,9 Ø 3,5

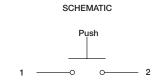


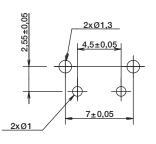


6,2

 $8,5\pm0,2$ 

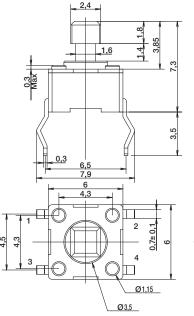


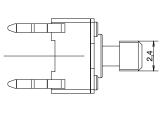


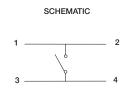


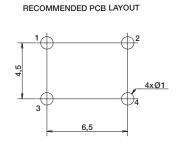
RECOMMENDED PCB LAYOUT

#### **VERTICAL THT - FOR 7.3MM HEIGHT ONLY**











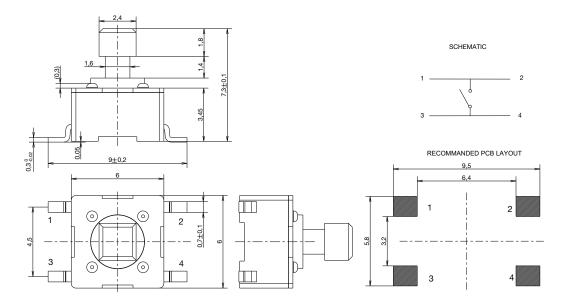
Dimensions are shown: mm Specifications and dimensions subject to change



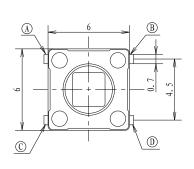
14 Apr 20

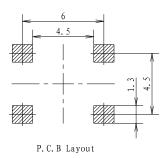
### **ACTUATOR SHAPE**

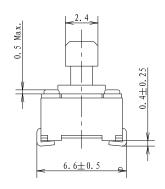
#### STRAIGHT SMT G TYPE - FOR 7.3MM HEIGHT ONLY

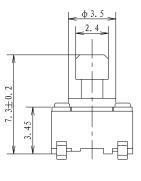


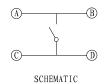
#### STRAIGHT SMT J TYPE - FOR 7.3MM HEIGHT ONLY













Dimensions are shown: mm

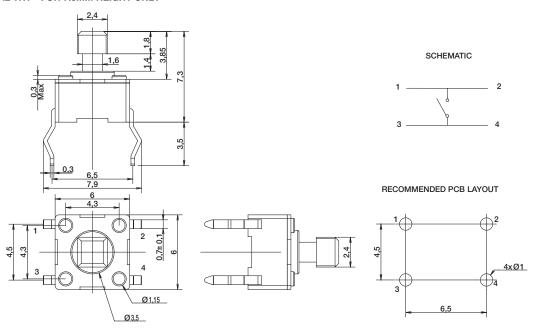


Specifications and dimensions subject to change

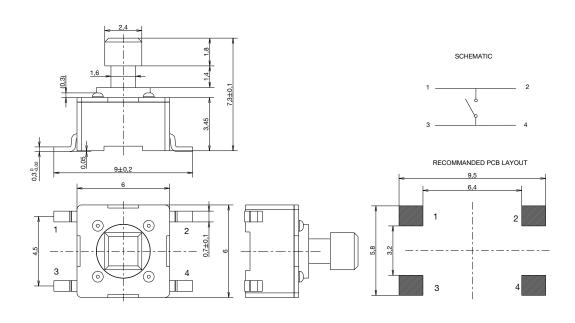
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### **ACTUATOR SHAPE**

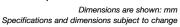
#### **VERTICAL THT - FOR 7.3MM HEIGHT ONLY**



#### STRAIGHT SMT - FOR 7.3MM HEIGHT ONLY





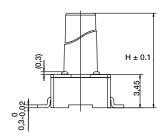




### **ACTUATION FORCE**

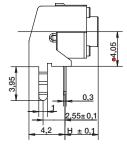
OPTION CODE	FORCE	
L	130 grams Black	
M	160 grams Blue	
Н	200 grams Gray	
K	260 grams Red	

### **ACTUATOR HEIGHT**



#### Switch height from PCB for S and T only

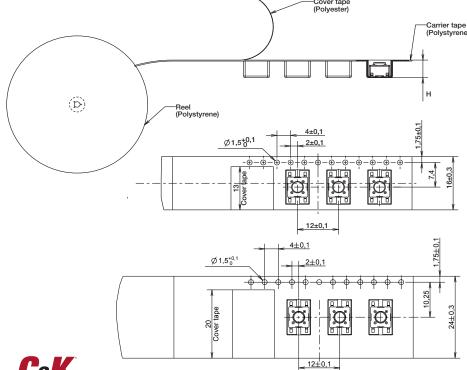
OPTION CODE	DIMENSION H	TERMINATION	SCHEI Without EMC pin	MATIC With EMC pin
43 50 70 95 13	4,3 (.169) 5,0 (.197) 7,0 (.275) 9,5 (.374) 13,0 (.512)	Thru-hole and SMT Thru-hole and SMT Thru-hole and SMT Thru-hole and SMT SMT	10——02 30——04	30 04



### Switch length from front leads for V only

OPTION	DIMENSION H	TERMINATION	SCHEI Without EMC pin	
31	3,15 (.124)	Vertical		10
39	3,85 (.151)	Vertical		10
58	5,85 (.230)	Vertical		<b>~</b> ─~
83	8,35 (.329)	Vertical		

### **TAPE & REEL FOR SMT G TYPE VERSIONS**



OPTION CODE	WIDTH TAPE	POCKET HEIGHT
43	16 <sub>±</sub> 0.3	5.3
50	16 <sub>±</sub> 0.3	5.3
70	16 <sub>±</sub> 0.3	7.3
73	16 <sub>±</sub> 0.3	7.6
95	24 ± 0.3	10.3
13	24 <sub>±</sub> 0.3	13.3

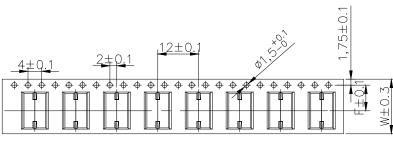


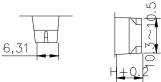
Dimensions are shown: mm

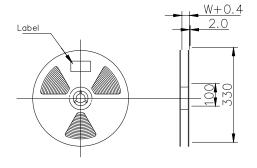


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### **TAPE & REEL FOR SMT J TYPE VERSIONS**



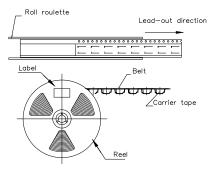




Tape specifications

Product height (H)mm	Carrier tape width (W)mm	Center distance of carrier tape (F)mm	pcs/reel
4.3	16	7.5	1000
5.0	16	7.5	1000
7.0	16	7.5	700
7.3	16	7.5	700
9.5	24	11.5	500
11	24	11.5	500
13	24	11.5	500

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







are shown: mn

# **Mouser Electronics**

**Authorized Distributor** 

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# **C&K Switches:**

<u>PTS645SK50JSMTR92 LFS</u> <u>PTS645SK73JSMTR92 LFS</u> <u>PTS645SM43JSMTR92 LFS</u> <u>PTS645SM73JSMTR92 LFS</u> <u>PTS645SJM73JSMTR92 LFS</u> <u>PTS645SK43JSMTR92 LFS</u>