БĪ



### 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

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:  $10^{11} \Omega$  min.

### **Environmental**

OPERATING TEMPERATURE: -40°C to 85°C STORAGE TEMPERATURE: -40°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:

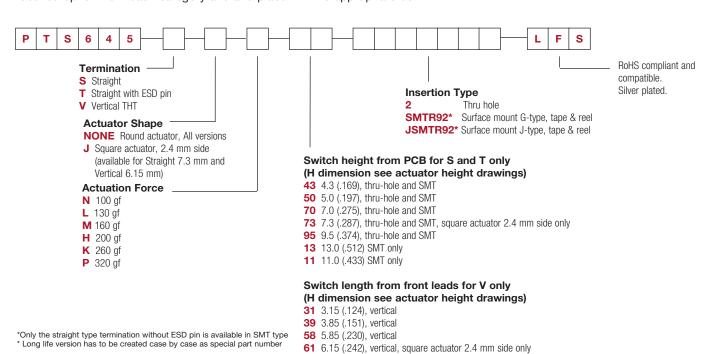
Reels of 1,000 pieces for 4.3 and 5.0 mm height Reels of 700 pieces for 7.0 mm height Reels of 700 pieces for 7.3 mm height Reels of 500 pieces for 9.5 mm height Reels of 400 pieces for 13.0 mm height

### NOTE:

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

### **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.



83 8.35 (.329), vertical

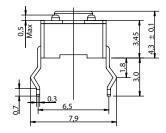


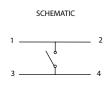
Dimensions are shown: mm Specifications and dimensions subject to change

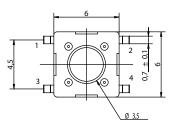
# **TERMINATION**

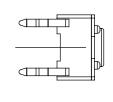
### **S** STRAIGHT

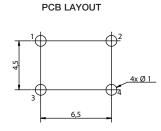




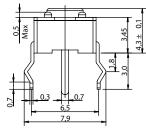


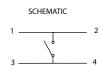


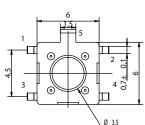


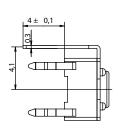


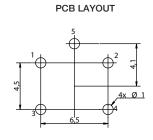
### T STRAIGHT WITH ESD PIN







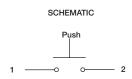


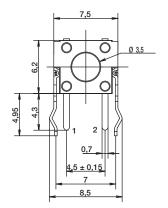


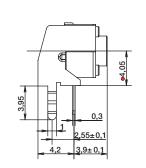
# V VERTICAL THT

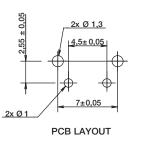














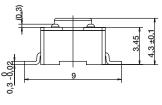
First Angle Projection

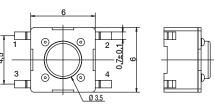
Dimensions are shown: mm Specifications and dimensions subject to change



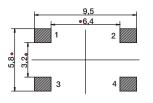
14 Apr 22

# **SMT G Type**



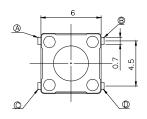




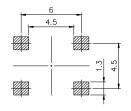


PCB LAYOUT

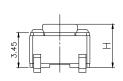
# **SMT J Type**







Ø 0.1 6.6±0.5



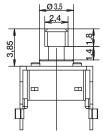
PCB LAYOUT

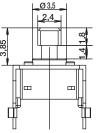


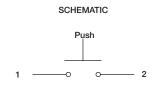


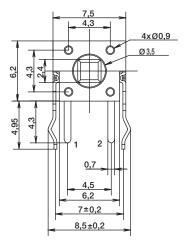
# J SQUARE ACTUATOR

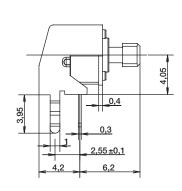
### **VERTICAL THT - FOR 6.15MM LENGTH ONLY**



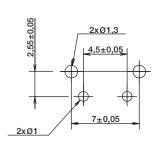






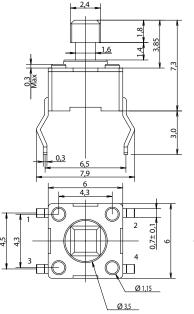


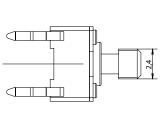
**ACTUATOR SHAPE** 

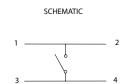


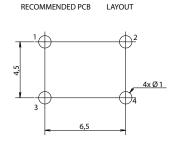
RECOMMENDED PCB LAYOUT

### STRAIGHT THT - FOR 7.3MM HEIGHT ONLY









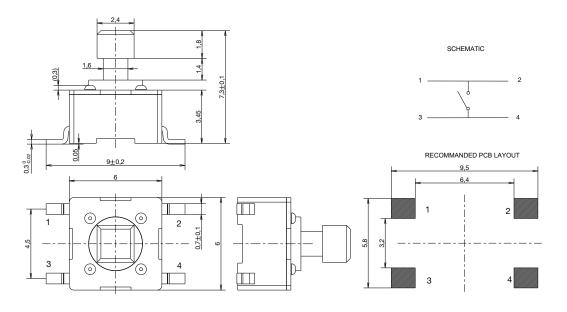


Dimensions are shown: mm Specifications and dimensions subject to change

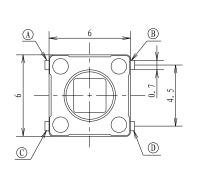


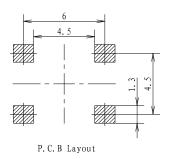
# **ACTUATOR SHAPE**

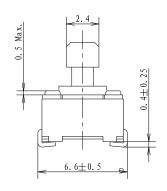
### STRAIGHT SMT G TYPE - FOR 7.3MM HEIGHT ONLY

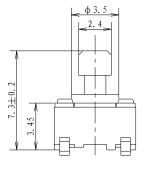


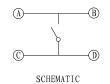
### STRAIGHT SMT J TYPE - FOR 7.3MM HEIGHT ONLY













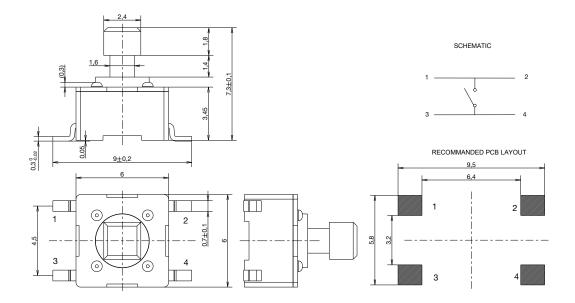
First Angle



Dimensions are shown: mm Specifications and dimensions subject to change

# **ACTUATOR SHAPE**

### STRAIGHT SMT - FOR 7.3MM HEIGHT ONLY





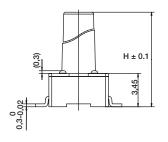




# **ACTUATION FORCE**

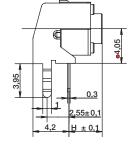
OPTION CODE	FORCE
L	130 grams Black
M	160 grams Blue
Н	200 grams Gray
K	260 grams Red

# **ACTUATOR HEIGHT**



# Switch height from PCB for S and T only

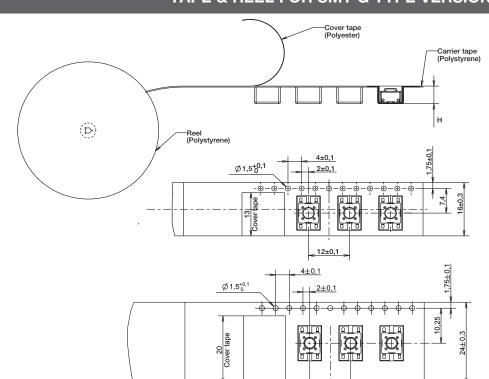
OPTION CODE	DIMENSION H	TERMINATION	SCHEMATIC Without EMC pin With EMC pir	
43 50 70 95 13	4,3 (.169) 5,0 (.197) 7,0 (.275) 9,5 (.374) 13,0 (.512)	Thru-hole and SMT Thru-hole and SMT Thru-hole and SMT Thru-hole and SMT SMT	10——02 30——04	10 02 30 04



### Switch length from front leads for V only

OPTION CODE	DIMENSION H	TERMINATION	SCHEMATIC Without EMC pin   With EMC pin	
31	3,15 (.124)	Vertical		
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 0.3	13.3



Dimensions are shown: mm Specifications and dimensions subject to change

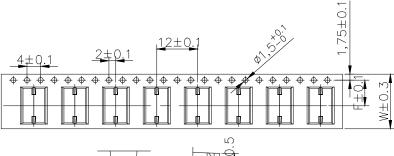


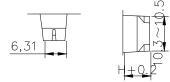
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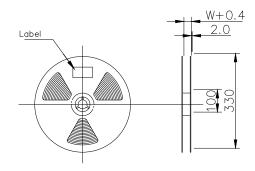
\_ 12±0,1

# **Tactile Switches**

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



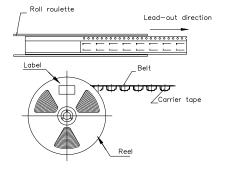




Tape specifications

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;









# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

# **C&K Switches:**

```
        PTS645SK13SMTR92LFS
        PTS645SK95SMTR92LFS
        PTS645SM95SMTR92LFS
        PTS645SM13SMTR92LFS

        PTS645SM70SMTR92LFS
        PTS645SK70SMTR92LFS
        PTS645SK43SMTR92LFS
        PTS645SM43SMTR92LFS

        PTS645SH43SMTR92LFS
        PTS645SL50SMTR92LFS
        PTS645SM50SMTR92LFS
        PTS645SH50SMTR92LFS

        PTS645SL43SMTR92LFS
        PTS645SK50SMTR92LFS
        PTS645SL70SMTR92LFS
        PTS645SL95SMTR92LFS

        PTS645SH70SMTR92LFS
        PTS645SL13SMTR92LFS
        PTS645SR13SMTR92LFS
        PTS645SH13SMTR92LFS

        PTS645SH95SMTR92LFS
        PTS645SL3SMTR92LFS
        PTS645SH13SMTR92LFS
```