PTS645 Series
6 mm Tact Switches

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 mΩ max. initial.
INSULATION RESISTANCE: 10¹¹ Ω min.

Environmental
OPERATING TEMPERATURE: -40˚C to 85˚C
STORAGE TEMPERATURE: -40˚C to 85˚C

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.

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.

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TERMINATION

S STRAIGHT

T STRAIGHT WITH ESD PIN

V VERTICAL THT

Dimensions are shown: mm
Specifications and dimensions subject to change

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TERMINATION

SMT G Type

SMT J Type

Dimensions are shown: mm
Specifications and dimensions subject to change

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ACTUATOR SHAPE

STRAIGHT SMT - FOR 7.3MM HEIGHT ONLY

Dimensions are shown: mm
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ACTUATION FORCE

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>FORCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>130 grams Black</td>
</tr>
<tr>
<td>M</td>
<td>160 grams Blue</td>
</tr>
<tr>
<td>H</td>
<td>200 grams Gray</td>
</tr>
<tr>
<td>K</td>
<td>260 grams Red</td>
</tr>
</tbody>
</table>

ACTUATOR HEIGHT

Switch height from PCB for S and T only

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>DIMENSION H</th>
<th>TERMINATION</th>
<th>SCHEMATIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>4.3 (168)</td>
<td>Thru-hole and SMT</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>5.0 (197)</td>
<td>Thru-hole and SMT</td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>7.0 (275)</td>
<td>Thru-hole and SMT</td>
<td></td>
</tr>
<tr>
<td>95</td>
<td>9.5 (374)</td>
<td>Thru-hole and SMT</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>13.0 (512)</td>
<td>SMT</td>
<td></td>
</tr>
</tbody>
</table>

Switch length from front leads for V only

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>DIMENSION H</th>
<th>TERMINATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>3.15 (124)</td>
<td>Vertical</td>
</tr>
<tr>
<td>39</td>
<td>3.85 (151)</td>
<td>Vertical</td>
</tr>
<tr>
<td>58</td>
<td>5.85 (230)</td>
<td>Vertical</td>
</tr>
<tr>
<td>83</td>
<td>8.35 (329)</td>
<td>Vertical</td>
</tr>
</tbody>
</table>

TAPE & REEL FOR SMT G TYPE VERSIONS

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>WIDTH TAPE</th>
<th>POCKET HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>16, 0.3</td>
<td>5.3</td>
</tr>
<tr>
<td>50</td>
<td>16, 0.3</td>
<td>5.3</td>
</tr>
<tr>
<td>70</td>
<td>16, 0.3</td>
<td>7.3</td>
</tr>
<tr>
<td>73</td>
<td>16, 0.3</td>
<td>7.6</td>
</tr>
<tr>
<td>95</td>
<td>24, 0.3</td>
<td>10.3</td>
</tr>
<tr>
<td>13</td>
<td>24, 0.3</td>
<td>13.3</td>
</tr>
</tbody>
</table>

Dimensions are shown: mm
Specifications and dimensions subject to change

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TAPE & REEL FOR SMT J TYPE VERSIONS

Tape specifications

<table>
<thead>
<tr>
<th>Product height</th>
<th>Corner tape width</th>
<th>Center distance of carrier tape</th>
<th>pcs/reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3</td>
<td>16</td>
<td>7.5</td>
<td>1000</td>
</tr>
<tr>
<td>5.6</td>
<td>16</td>
<td>7.5</td>
<td>1000</td>
</tr>
<tr>
<td>7.6</td>
<td>16</td>
<td>7.5</td>
<td>700</td>
</tr>
<tr>
<td>9.6</td>
<td>24</td>
<td>11.5</td>
<td>500</td>
</tr>
<tr>
<td>11</td>
<td>24</td>
<td>11.5</td>
<td>500</td>
</tr>
<tr>
<td>13</td>
<td>24</td>
<td>11.5</td>
<td>500</td>
</tr>
</tbody>
</table>

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

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