**PTS645 Series**  
**6 mm Tact Switches**

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**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

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**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 mΩ max. initial.  
**INSULATION RESISTANCE:** 10^11 Ω 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

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**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 place it in the appropriate box.

**Termination**
- S: Straight  
- T: Straight with ESD pin  
- V: Vertical

**Actuator Shape**
- NONE: Round actuator, All versions  
- J: Square actuator, 2.4 mm side (available for Straight 7.3 mm and Vertical 6.15 mm)

**Actuation Force**
- L: 130 grams  
- M: 160 grams  
- H: 200 grams  
- K: 260 grams

**Insertion Type**
- 2: Thru hole  
- SMTR92*: Surface mount G-type, tape & reel  
- JSMTR92*: Surface mount J-type, tape & reel

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

(H dimension see actuator height drawings)  
- 43: 4.3 (.169), thru-hole and SMT  
- 50: 5.0 (.197), thru-hole and SMT  
- 70: 7.0 (.275), thru-hole and SMT  
- 73: 7.3 (.287), thru-hole and SMT, square actuator 2.4 mm side only  
- 95: 9.5 (.374), thru-hole and SMT  
- 13: 13.0 (.512) SMT only

**Switch length from front leads for V only**

(H dimension see actuator height drawings)  
- 31: 3.15 (.124), vertical  
- 39: 3.85 (.151), vertical  
- 58: 5.85 (.230), vertical  
- 61: 6.15 (.242), vertical, square actuator 2.4 mm side only  
- 83: 8.35 (.329), vertical

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*Only the straight type termination without ESD pin is available in SMT type.

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

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Dimensions are shown: mm  
products and dimensions subject to change.  
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6 mm Tact Switches

TERMINATION

S STRAIGHT

T STRAIGHT WITH ESD PIN

V VERTICAL

Dimensions are shown: mm
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TERMINATION

SMT G Type

SMT J Type

Dimensions are shown: mm
Specifications and dimensions subject to change

14 Apr 20
PTS645 Series
6 mm Tact Switches

ACTUATOR SHAPE

J SQUARE ACTUATOR

VERTICAL THT - FOR 6.15MM LENGTH ONLY

VERTICAL THT - FOR 7.3MM HEIGHT ONLY

Dimensions are shown: mm
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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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6 mm Tact Switches

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 Without EMC pin</th>
<th>SCHEMATIC With EMC pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>4.3 (.169)</td>
<td>Thru-hole and SMT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>5.0 (.197)</td>
<td>Thru-hole and SMT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>7.0 (.275)</td>
<td>Thru-hole and SMT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>95</td>
<td>9.5 (.374)</td>
<td>Thru-hole and SMT</td>
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<td></td>
</tr>
<tr>
<td>13</td>
<td>13.0 (.512)</td>
<td>SMT</td>
<td></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>
<th>SCHEMATIC Without EMC pin</th>
<th>SCHEMATIC With EMC pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>3.15 (.124)</td>
<td>Vertical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>3.85 (.151)</td>
<td>Vertical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>5.85 (.230)</td>
<td>Vertical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>83</td>
<td>8.35 (.329)</td>
<td>Vertical</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TAPE & REEL FOR SMT G TYPE VERSIONS

Dimensions are shown: mm
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TAPE & REEL FOR SMT J TYPE VERSIONS

Tape specifications:

<table>
<thead>
<tr>
<th>Product Height</th>
<th>Carrier tape width</th>
<th>Carrier distance of carbon 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>5.0</td>
<td>16</td>
<td>7.5</td>
<td>1000</td>
</tr>
<tr>
<td>7.3</td>
<td>16</td>
<td>7.5</td>
<td>1000</td>
</tr>
<tr>
<td>9.5</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 braid must not be twisted to prevent product deformation.

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