PTS645 Series
6 mm Tact Switches

Features/Benefits
- Compact size 6 x 6 mm
- Variety of actuator lengths
- Choice of actuation force

Typical Applications
- Consumer products
- Instrumentation
- Computer products
- Industrial

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

Mechanical
ACTUATION FORCE: PTS645 models: 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: -40˚C to 60˚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.

Materials
BASE: 6/6 nylon or glass filled polyester (PBT) (UL 94V-0).
ACTUATOR: 6/6 nylon or polyacetal (UL 94HB).
COVER PLATE: PTS645S: Polyester or stainless steel.
PTS645T and PTS645V: Tin alloy or stainless steel.
DOME CONTACTS: Phosphor bronze, silver clad.
STATIONARY CONTACTS: Brass, silver plated.
TERMINALS: Brass, silver plated. Insert molded.

Packaging
Bulk packaging.

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.

Termination
- S Thru-hole
- T Thru-hole with ESD pin
- V Vertical

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

Actuator Height to PCB / Ground Pin
- 43 4.3 (.169), thru-hole
- 50 5.0 (.197), thru-hole
- 70 7.0 (.275), thru-hole
- 85 8.5 (.335), thru-hole
- 95 9.5 (.374), thru-hole
- 31 3.1 (.124), vertical
- 39 3.85 (.151), vertical
- 58 5.85 (.230), vertical
- 63 8.35 (.329), vertical
- 15 15.85 (.624), vertical
PTS645 Series
6 mm Tact Switches

### SERIES

**PTS645**

### PCB LAYOUT

- **S** STRAIGHT
- **T** STRAIGHT WITH EMC PIN
- **V** VERTICAL

Dimensions are shown: mm (inch)
Dimensions subject to change
**PTS645 Series**

**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</td>
</tr>
<tr>
<td>M</td>
<td>160 grams</td>
</tr>
<tr>
<td>H</td>
<td>200 grams</td>
</tr>
<tr>
<td>K</td>
<td>260 grams</td>
</tr>
</tbody>
</table>

### ACTUATOR HEIGHT

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>HEIGHT “H” or LENGTH “L”</th>
<th>TERMINATION</th>
<th>SCHEMATIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>4.3 (.169)</td>
<td>Thru-hole</td>
<td>Without EMC pin</td>
</tr>
<tr>
<td>50</td>
<td>5.0 (.197)</td>
<td>Thru-hole</td>
<td>Without EMC pin</td>
</tr>
<tr>
<td>70</td>
<td>7.0 (.275)</td>
<td>Thru-hole</td>
<td>Without EMC pin</td>
</tr>
<tr>
<td>95</td>
<td>9.5 (.374)</td>
<td>Thru-hole</td>
<td>Without EMC pin</td>
</tr>
<tr>
<td>31</td>
<td>3.15 (.124)</td>
<td>Vertical</td>
<td>With EMC pin</td>
</tr>
<tr>
<td>39</td>
<td>3.85 (.151)</td>
<td>Vertical</td>
<td>With EMC pin</td>
</tr>
<tr>
<td>58</td>
<td>5.85 (.230)</td>
<td>Vertical</td>
<td>With EMC pin</td>
</tr>
<tr>
<td>83</td>
<td>8.35 (.329)</td>
<td>Vertical</td>
<td>With EMC pin</td>
</tr>
<tr>
<td>15</td>
<td>15.85 (.624)</td>
<td>Vertical</td>
<td>With EMC pin</td>
</tr>
</tbody>
</table>

- **Option Code**: A code indicating the actuation force or actuator height.
- **Height “H” or Length “L”**: The dimensions of the switch in mm or inches.
- **Termination**: Indicate whether it's a Thru-hole or Vertical termination.
- **Schematic**: The graphical representation showing the pin configuration.