Specifications:

Contact Rating: 0.4 volt-amps (VA) maximum at 20V maximum (AC or DC).
Mechanical Life: 30,000 make-and-break cycles.
Contact Resistance: 20mΩ maximum initial at 2 to 4V dc.
Minimum Insulation Resistance: 1,000MΩ.
Dielectric Strength: 1,000VRMS at sea level.
Operating Temperature: -30°C to 85°C.

Materials:
- Case and Bushing: Diallyl phthalate (DAP).
- Actuator: Brass, chrome plated.
- Bushing: Brass, nickel plated.
- Housing: Stainless steel.
- Switch Support: Brass, tin plated.
- Terminals/Contact: Brass, with gold plated.

Pole Option

M2RE

Dimensions: Millimetres (Inches)
Toggle Switches
Sub-Miniature

Pole Option

**M2RE**

**DPDT**

**Dimensions:** Millimetres (Inches)

**M6RE**

**SPDT**

**Dimensions:** Millimetres (Inches)

**M6RE**

**DPDT**

**PCB Mounting**

**Dimensions:** Millimetres (Inches)
## Soldering Process:

**Manual soldering:** Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

**Wave soldering:**
- **Recommended soldering temperature:** 260 ±5°C.
- **Duration of solder immersion:** 5 ±1 seconds (PCB is 1.6mm in thickness).

**Soldering:** Vapour phase.
### Temperature Profile

<table>
<thead>
<tr>
<th>Zone</th>
<th>Room Temperature (°C)</th>
<th>Time (seconds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-heat (A)</td>
<td>150°C</td>
<td>Minimum 120</td>
</tr>
<tr>
<td>Soak (B)</td>
<td>180°C to 200°C</td>
<td>Minimum 150</td>
</tr>
<tr>
<td>Peak (C)</td>
<td>200°C to 235°C</td>
<td>Minimum 30</td>
</tr>
<tr>
<td>Peak (D)</td>
<td>235°C to 260°C</td>
<td>Minimum 40</td>
</tr>
<tr>
<td>Peak (E)</td>
<td>260°C</td>
<td>Maximum 10</td>
</tr>
</tbody>
</table>

### Specifications

<table>
<thead>
<tr>
<th>Number of Poles</th>
<th>Switch Function</th>
<th>Connected Terminals/Schematic</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP</td>
<td>Off</td>
<td>Mom</td>
<td>2MS3</td>
</tr>
<tr>
<td></td>
<td>On</td>
<td>Mom</td>
<td>2MS1</td>
</tr>
<tr>
<td></td>
<td>Mom</td>
<td>Off</td>
<td>2MS2</td>
</tr>
<tr>
<td>DP</td>
<td>Off</td>
<td>Mom</td>
<td>2MS5</td>
</tr>
<tr>
<td></td>
<td>On</td>
<td>Mom</td>
<td>2MS4</td>
</tr>
<tr>
<td></td>
<td>On</td>
<td>None</td>
<td>2MS6</td>
</tr>
</tbody>
</table>

Mom = Momentary
## Toggle Switches
### Sub-Miniature

### Specification Table

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch, Toggle, SPDT, Vertical, Mom-Off-Mom</td>
<td>2MS4T2B2M2RE</td>
</tr>
<tr>
<td>Switch, Toggle, SPDT, Vertical, On-Off-Mom</td>
<td>2MS5T2B2M2RE</td>
</tr>
<tr>
<td>Switch, Toggle, DPDT, Vertical, On-Mom</td>
<td>2MD2T2B2M2RE</td>
</tr>
<tr>
<td>Switch, Toggle, DPDT, Vertical, On-On-On</td>
<td>2MD6T2B2M2RE</td>
</tr>
<tr>
<td>Switch, Toggle, SPDT, Horizontal R/A, On-Mom</td>
<td>2MS2T2B2M6RE</td>
</tr>
<tr>
<td>Switch, Toggle, SPDT, Horizontal R/A, Mom-Off-Mom</td>
<td>2MS4T2B2M6RE</td>
</tr>
<tr>
<td>Switch, Toggle, DPDT, Horizontal R/A, On-Mom</td>
<td>2MD2T2B2M6RE</td>
</tr>
<tr>
<td>Switch, Toggle, DPDT, Horizontal R/A, On-On-On</td>
<td>2MD6T2B2M6RE</td>
</tr>
<tr>
<td>Switch, Toggle, SPDT, Vertical R/A, On-Mom</td>
<td>2MS2T2B2M7RE</td>
</tr>
<tr>
<td>Switch, Toggle, SPDT, Vertical R/A, On-On</td>
<td>2MS1T2B2M7RE</td>
</tr>
<tr>
<td>Switch, Toggle, SPDT, Vertical R/A, Mom-Off-Mom</td>
<td>2MS4T2B2M7RE</td>
</tr>
<tr>
<td>Switch, Toggle, SPDT, Vertical R/A, On-Off-On</td>
<td>2MS3T2B2M7RE</td>
</tr>
<tr>
<td>Switch, Toggle, DPDT, Vertical R/A, On-Mom</td>
<td>2MD2T2B2M7RE</td>
</tr>
<tr>
<td>Switch, Toggle, DPDT, Vertical R/A, On-On-On</td>
<td>2MD6T2B2M7RE</td>
</tr>
<tr>
<td>Switch, Toggle, DPDT, Vertical R/A, On-Off-On</td>
<td>2MD3T2B2M7RE</td>
</tr>
<tr>
<td>Switch, Toggle, SPDT, Vertical Threaded, On-Mom</td>
<td>2MS2T1B5M2RE</td>
</tr>
<tr>
<td>Switch, Toggle, SPDT, Vertical Threaded, Mom-Off-Mom</td>
<td>2MS4T1B5M2RE</td>
</tr>
<tr>
<td>Switch, Toggle, SPDT, Vertical Threaded, On-Off-Mom</td>
<td>2MS5T1B5M2RE</td>
</tr>
<tr>
<td>Switch, Toggle, DPDT, Vertical Threaded, On-Mom</td>
<td>2MD2T1B5M2RE</td>
</tr>
<tr>
<td>Switch, Toggle, DPDT, Vertical Threaded, On-On-On</td>
<td>2MD6T1B5M2RE</td>
</tr>
</tbody>
</table>
### Toggle Switches
#### Sub-Miniature

**Part Number Explanation:**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>T2</th>
<th>B2</th>
<th>M2</th>
<th>R</th>
<th>E</th>
<th>RoHS Compliant</th>
</tr>
</thead>
<tbody>
<tr>
<td>2MS4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Model Number:** 2MS1 = SP On-None-On, 2MS2 = SP On-None-Mom, 2MS3 = SP On-Off-On, 2MS4 = SP Mom-Off-Mom, 2MS5 = SP On-Off-Mom, 2MD1 = DP On-None-On, 2MD2 = DP On-None-Mom, 2MD3 = DP On-Off-On and 2MD6 = DP On-On-On.
- **Actuator:** T1 = 9.40 High and T2 = 5.33 High.
- **Bushing:** B2 = 5.59 High, Flat (Non-thd) and B5 = 7.87 High, Flat (thd).
- **Terminations:** M2 = PVC Through Hole, M6 = Right Angle, PVC Through Hole and M7 = Vertical Right Angle, PVC Through Hole.
- **Contact Material:** R = Gold.
- **Seal:** E = Epoxy (STD).
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