**Series 218 Data Sheet**

**Half Pitch, SMD DIP Switch**

**SMT Half Pitch DIP Switch—Auto Placeable**

**Features**

**Optimized Mechanical Features**
- Gull-wing and "J" bend terminal configurations
- Low profile actuators prevent accidental actuation
- SPST configuration available

**Optimized Contact System**
- Redundant, wiping contact
- Contactor does not deflect during actuation
- 0.6 mm/.024" actuator travel

**Materials**
- Gold plated beryllium copper contacts
- Gold flash coated terminals
- High temperature materials (UL94V-0)
- RoHS Compliant
- Optional top tape seal for board spray washing

**Electrical and Mechanical Specifications**

**Switch Function**
- SPST - 2, 4, 6, 8, 10, and 12 positions

**Switch Contact Resistance**
- 100 milliohms maximum initial
- 100 milliohms maximum at end of life

**Insulation Resistance**
- 100 megohms minimum between insulated terminals

**Dielectric Strength**
- 350 VAC for 1 minute between adjacent switches

**Nonswitching Rating**
- 100 mA or 50 VDC maximum

**Switch Capacitance**
- 10 pF maximum between adjacent closed switches

**Operating Temperature**
- -55°C to +85°C

**Actuation Life**
- 1,000 cycles switching 25 mA @ 24 VDC

**Coplanarity**
- Coplanarity of 0.1mm/.004" maximum

**Allowable Solder Time**
- Up to 60 seconds at 260°C

**Vibration**
- Per MIL-STD-202G, method 204D, condition B (.06" or 15G’s between 10 HZ to 2 KHz) with no contact inconsistencies greater than 1 microsecond.

**Shock**
- Per MIL-STD-202G, method 213B, condition A (50G’s) with no contact inconsistencies greater than 1 microsecond.

**Sealing**
- Standard bottom seal
- Optional top tape seal for board spray washing

**Marking**
- Special marking available-consult CTS

**Packaging**
- Standard : Anti-static tube packaging
- Optional : Tape and reel packaging
**Ordering Information**

### CTS SERIES 218LPJ - "J" Bend Terminal

**SURFACE MOUNT PAD LAYOUT**

**TABLE 1**

<table>
<thead>
<tr>
<th>NO. OF SWITCH POSITIONS</th>
<th>&quot;A&quot; OVERALL DIMENSIONS</th>
</tr>
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<tbody>
<tr>
<td>2</td>
<td>3.71/.146</td>
</tr>
<tr>
<td>4</td>
<td>6.25/.246</td>
</tr>
<tr>
<td>6</td>
<td>8.79/.346</td>
</tr>
<tr>
<td>8</td>
<td>11.33/.446</td>
</tr>
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<td>12</td>
<td>16.41/.646</td>
</tr>
</tbody>
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### CTS SERIES 218LP - Gull Wing Terminal

**SURFACE MOUNT PAD LAYOUT**

**TABLE 2**

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**DIMENSION** mm / inch