Multifunctional Through Hole DIP Switches

Features

Optimized Mechanical Features
- Standard 2.54mm (.100") x 7.62mm (.300") DIP centers
- Sealed version optional; assures contaminant-free switch operation after wave soldering and cleaning
- Available with low profile, standard, or extended actuators for SPST circuitry.
- Switch contacts elevated above switch base provides dust proof feature.
- Available with SPST, SPDT, DPST, 4PST circuitry choices.

Optimized Contact System
- Contact wiping action on make and break
- Integral terminal and contact locked into thermoset base
- Electrostatic discharge shield rated to 22 KV

Materials
- Series 206, gold plated contacts for long-term contact corrosion resistance.
- Series 208, tin plated contacts
- UL 94V-0 plastics
- RoHS compliant

Electrical and Mechanical Specifications

Switch Function
- SPST - 1 through 10 and 12 positions
- SPDT&DPST- 1 through 6 positions
- 3PST - 1 through 4 positions

Switch Contact Resistance

<table>
<thead>
<tr>
<th>Switch Series</th>
<th>Initial, max.</th>
<th>End of life, max.</th>
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</thead>
<tbody>
<tr>
<td>206</td>
<td>50 milliohms</td>
<td>100 milliohms</td>
</tr>
<tr>
<td>208</td>
<td>100 milliohms</td>
<td>500 milliohms</td>
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</tbody>
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Insulation Resistance
1,000 megoohms minimum between insulated terminals

Dielectric Strength
500 VAC for 1 minute between adjacent switches

Nonswitching Rating
100 mA or 50 VDC maximum

Switch Capacitance
5.0 pF maximum between adjacent closed switches

Operating Temperature
-55°C to +85°C

Actuation Life
- Series 206: 10,000 cycles switching 50 mA @ 24 VDC
- Series 208: 2,000 cycles switching 50 mA @ 24 VDC

Allowable Solder Time
Wave soldering up to 5 seconds at 260°C

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

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

Sealing
- Bottom epoxy seal optional
- Top tape seal optional

Marking
- Special side or top marking available-consult CTS

Packaging
- Standard: Anti-Static tube packaging
Low Profile Actuators  Series 206/208 (SPST & SPDT only)

Extended Actuators  Series 206/208 (SPST)
Contact CTS for other common features not listed.