Series RV6 Military

Precision series RV6 potentiometers are suitable for both military and commercial applications.

RoHS and REACH Complaint and contain no Conflict minerals.

These Products meet Military Specifications, Custom made parts available on request.

Electrical Specification

- **Resistance tolerance**: ±10% or ±20%
- **Power rating**: 0.5 watts at 70°C derated to 0 watts at 120°C
- **Insulation resistance**:
  - dry: 10K MegΩ
  - wet: 100K MegΩ
- **Dielectric strength**: 750 V RMS at sea level
- **Operating voltage**: 350 V, subject to power rating

This product is non-electrostatic discharge sensitive (non-ESD)

**Table RV6 1**

<table>
<thead>
<tr>
<th>Designation</th>
<th>Flat Bushing N&amp;S</th>
<th>Slotted Bushing N&amp;S</th>
<th>Slotted Bushing L</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.625</td>
<td>0.625</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>0.875</td>
<td>0.875</td>
<td>0.875</td>
</tr>
<tr>
<td>L</td>
<td>0.375</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RV6 Resistance Available in Ohms**

<table>
<thead>
<tr>
<th>Resistance</th>
<th>100</th>
<th>200</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>5000</th>
<th>10000</th>
<th>20000</th>
<th>50000</th>
<th>100000</th>
<th>200000</th>
<th>500000</th>
<th>1000000</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>5000</td>
<td>2000</td>
<td>250</td>
<td>5000</td>
<td>10000</td>
<td>20000</td>
<td>5000</td>
<td>10000</td>
<td>20000</td>
<td>50000</td>
<td>100000</td>
<td>200000</td>
<td>500000</td>
<td>1000000</td>
</tr>
</tbody>
</table>

Mechanical Specification

- **Mechanical rotation**: 295°
- **Operating torque**: 0.5 oz/in to 6 oz/in
- **Rotational life**: 25,000 cycles

Electrical Rotation: 270

Environmental Specification

- **Operating temperature**: -65°C to +125°C
- **Resistance to soldering heat**: 350°C for 5 seconds
- **Humidity range**: per MIL-R-94
- **Vibration range**: per MIL-R-94
- **Shock resistance**: per MIL-R-94
- **Load life**: 1000 hours at 70°C

Features

- Hot molded carbon element
- Gold-plated terminals
- Stainless-steel shaft and housing
- Quality meeting or exceeding MIL-R-94 - QPL listed
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Standard Bushing

Percent Of Total Nominal Resistance

Ordering Information - Military Part Numbers

<table>
<thead>
<tr>
<th>Style</th>
<th>Bushing</th>
<th>Switch</th>
<th>Temperature and moisture characteristics</th>
<th>Shaft Style</th>
<th>Shaft Length</th>
<th>Resistance Value</th>
<th>Taper and tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RV6</td>
<td>N = standard</td>
<td>A = without switch</td>
<td>Y = as per MIL-R-94</td>
<td>S = slotted</td>
<td>D = logarithmic</td>
<td>A = linear 10%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>L = locking</td>
<td></td>
<td></td>
<td>F = flatted</td>
<td>L = 3/8&quot;</td>
<td>B = linear 20%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S = panel &amp; shaft seal</td>
<td></td>
<td></td>
<td></td>
<td>C = logarithmic</td>
<td>D = logarithmic 20%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E = reverse</td>
<td>F = reverse</td>
<td></td>
</tr>
</tbody>
</table>

Example: RV6NAYSB000A

note: not all part number combinations are valid