0502 - Rotary Potentiometer

**Features**
- Diecast housing (bushing) and shaft
- Additional models and versions available; special data sheets can be requested
- Carbon resistive element

**Characteristics**
- Mechanical Angle: 270° ± 5°
- Starting Torque: 0.5 to 1.5 Ncm
- End Stop Strength: 60 Ncm max.
- Shaft Push-Pull Force: 100 N max.
- Resistance Range: 100 ohms to 4.7 megohms
- Resistance Taper: Linear
- Power Rating: 0.2 W
- Temperature Range: -25°C to +70°C
- Rotational Life: 10,000 cycles

**Product Dimensions**

**Standard Resistance Table**

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>101</td>
</tr>
<tr>
<td>220</td>
<td>221</td>
</tr>
<tr>
<td>470</td>
<td>471</td>
</tr>
<tr>
<td>500</td>
<td>501</td>
</tr>
<tr>
<td>1,000</td>
<td>102</td>
</tr>
<tr>
<td>2,200</td>
<td>222</td>
</tr>
<tr>
<td>4,700</td>
<td>472</td>
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<tr>
<td>10,000</td>
<td>103</td>
</tr>
<tr>
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<tr>
<td>500,000</td>
<td>504</td>
</tr>
<tr>
<td>1,000,000</td>
<td>105</td>
</tr>
</tbody>
</table>

**Specifications**


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Product Dimensions

0502-300

Recommended PCB Layout

0502-600

Recommended PCB Layout

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Product Dimensions

0502-900

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>11.0</td>
<td>(0.433)</td>
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<tr>
<td>16.0</td>
<td>(0.630)</td>
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<tr>
<td>2.5</td>
<td>+0/-0.2</td>
</tr>
<tr>
<td>1.1</td>
<td>(0.043)</td>
</tr>
<tr>
<td>12.0</td>
<td>(0.472)</td>
</tr>
</tbody>
</table>

0502-950

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.0</td>
<td>(0.551)</td>
</tr>
<tr>
<td>16.0</td>
<td>(0.630)</td>
</tr>
<tr>
<td>2.6</td>
<td>+0/-0.2</td>
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<tr>
<td>1.3</td>
<td>(0.043)</td>
</tr>
<tr>
<td>20.0</td>
<td>(0.787)</td>
</tr>
</tbody>
</table>

Recommended PCB Layout

How to Order

Model Type
- 0502

Terminal Style
- Only Available w/ Bushing Code:
  - 000 G,H,U
  - 050 K,M,N
  - 300 G,H,U
  - 600 G,H,U
  - 900 G,H,U
  - 950 K,M,N

Bushing & Shaft Type
- U = 7 mmD x 8 mmL, Shaft 4 mmD
- H = 7 mmD x 5 mmL, Shaft 4 mmD
- G = 7 mmD x 12 mmL, Shaft 4 mmD
- K = 10 mmD x 8 mmL, Shaft 6 mmD
- M = 10 mmD x 5 mmL, Shaft 6 mmD
- N = 10 mmD x 12 mmL, Shaft 6 mmD

Shaft Length
- 500 = 50 mm
- Other lengths avail. upon request.

Independent Linearity
- A = ±5%
- B = ±4%
- C = ±3%
- D = ±2.5%
- E = ±2%

Element Taper
- B = Linear Carbon ±20%
- E = Linear Carbon ±10%
- L = Linear Carbon ±5%

Resistance Code
- Other versions available upon request.

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