PRS12 - 12 mm Rotary Metal Shaft Dual-Potentiometer

**Features**
- Various metal shaft options
- Horizontal & vertical mount option
- Dual-potentiometer
- Audio & linear tapers
- PC pin layout for board mount
- RoHS compliant*

**Additional Information**
Click these links for more information:
- **PRODUCT**
- **TECHNICAL LIBRARY**
- **INVENTORY**
- **SAMPLES**
- **CONTACT**

**Electrical Characteristics**
- Taper: Audio, Linear
- Standard Resistance: 5k ohms to 500k ohms
- Standard Resistance Tolerance: ±20%
- R < 250k ohms: ±10%
- R ≥ 250k ohms: ±5%
- Residual Resistance: 0.6 % max.
- Insulation Resistance:
  - 100 megohms minimum @ 250V DC
- PowerRating: 0.05 W
- Maximum Operating Voltage: 50 V AC / 10 V DC
- Sliding Noise: 100 mV max.

**Environmental Characteristics**
- Operating Temperature: -10 °C to +70 °C
- Storage Temperature: -40 °C to +70 °C
- Soldering Condition:
  - Wave Soldering: 260 °C for 5 s
  - Manual Soldering: 350 °C for 3 s
- IP Rating: IP 40

**Mechanical Characteristics**
- Mechanical Angle: 300 ° ± 5 ° max.
- Torque:
  - Starting & Running: 10-150 gf-cm
  - Detent: 20-200 gf-cm
- Mounting: 12 kgf-cm max.
- Stop Strength: 3.5 kgf-cm min.
- Rotational Life: 10,000 cycles min.
- Hardware: One flat washer and one hex nut supplied with threaded bushing versions

**Shaft & Bushing Dimensions**

**Product Dimensions**

**PRS12R-2xxxx-xxxxxx**

**PRS12R-4xxxx-xxxxxx**

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PRS12R - 12 mm Rotary Metal Shaft Dual-Potentiometer

**Tapers**

**A Series**

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
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<tbody>
<tr>
<td>5,000</td>
<td>502</td>
</tr>
<tr>
<td>10,000</td>
<td>103</td>
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<td>250,000</td>
<td>254</td>
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<tr>
<td>500,000</td>
<td>504</td>
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</table>

**B Series**

**C Series**

**Resistance Table**

<table>
<thead>
<tr>
<th>Terminal 1 - 2 Output Voltage</th>
<th>Terminal 1 - 3 Input Voltage X 100 (%)</th>
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**How To Order**

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<th>PRS12R - 4015 F - 103 B1</th>
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**Resistance Taper (see Taper charts)**

**Hardware**

- M7 x 0.75 (1039)
- 2.0 ± 0.2 (7079 ± 0.08)
- 1.0 ± 0.5 (300 ± 0.03)
- WASHER
- NUT

**Derating Curve**

**Power Rating Ratio (%)**

**Ambient Temperature (°C)**

**Circuit**

<table>
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<th>2</th>
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<tbody>
<tr>
<td>3</td>
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