**Features**
- Lower profile than Model 6639
- Essentially infinite resolution
- Excellent rotational life
- High quality, rugged construction
- Recommended for HMI applications
- Cost and space saving
- Optional anti-rotation lug
- Optional mechanical stop

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**6630 - Precision Potentiometer**

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**Electrical Characteristics**

- **Standard Resistance Range**: 1K to 20K ohms
- **Total Resistance Tolerance**: ±15%
- **Independent Linearity**: ±2.0%
- **Effective Electrical Angle**: ±340° ±3°
- **End Voltage**: 0.5% maximum
- **Output Smoothness**: 0.1% T.I.R.
- **Dielectric Withstanding Voltage (MIL-STD-202, Method 301)**: 750 VAC minimum
- **Power Rating (Voltage Limited By Power Dissipation or 300 VAC, Whichever is Less)**: 0 watt
- **Shaft Radial Play**: ±0.13 mm (0.005 in.) T.I.R.
- **Shaft Runout**: ±0.015 in. maximum

**Environmental Characteristics**

- **Temperature Range**
  - Operating: -40 °C to +125 °C
  - Storage: -65 °C to +125 °C
- **Temperature Coefficient** ±125 °C: 15 G
- **Vibration**: ±0.1 millisecond maximum
- **Wiper Bounce**: ±0.5 G
- **Shock**: ±50 G
- **Total Resistance Shift**: ±5 %
- **Load Life**: 1,000 hours, 1 watt
- **Total Resistance Shift**: ±10 %

**Mechanical Characteristics**

- **Temperature Coefficient** ±60 °C: 15 G
- **Vibration**: ±0.1 millisecond maximum
- **Wiper Bounce**: ±5 G
- **Shaft End Play**: ±0.13 mm (0.005 in.) T.I.R.
- **Shaft Radial Play**: ±0.13 mm (0.005 in.) T.I.R.
- **Backlash**: ±0.1 ° maximum
- **Weight**: 672 gm (1.5 lb.)
- **Terminals**: Axial and radial solder lugs
- **Soldering Condition**: Recommended hand soldering using Sn95/Ag5 no clean solder, 0.025” wire diameter. Maximum temperature 399°C (750°F) for 3 seconds.

**Product Dimensions**

**Axial Ledged**

- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**

**Radial Ledged**

- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**

**Flattened Shaft**

- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**
- **DIA. 6.342 ± 0.000-0.013 (250g+0.000-0.005)**

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**WARNING** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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Users should verify actual device performance in their specific applications.
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Panel Thickness Dimensions

Anti-rotation pin hole is shown at six o'clock position for reference only. The actual location is determined by the customer’s application. Refer to the front view of the potentiometer to see the location of the optional A/R pin.

Panel thickness and hole diameters are recommended for best fit. However, customers may adjust the dimensions to suit their specific application.

**Dimensions:**  

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>MM (INCHES)</th>
<th>Tolerances: ± 0.127 (.005)</th>
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<tbody>
<tr>
<td>DIA.</td>
<td>1.78 (0.07)</td>
<td></td>
</tr>
<tr>
<td>DIA.</td>
<td>10.41 ± .07</td>
<td>(.410 ± .003)</td>
</tr>
<tr>
<td>R</td>
<td>7.93</td>
<td>(.312)</td>
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</table>

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6630 - Precision Potentiometer

How To Order

6 6 3 0 S 0 D - B 2 8 - A 1 0 2

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<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
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<td>Precision Potentiometer</td>
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<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
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<tbody>
<tr>
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<tr>
<td>1/4 &quot; Dia. Flatted End</td>
<td>C</td>
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<table>
<thead>
<tr>
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<th>Description</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>C</td>
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