### Features
- 51 mm (2") diameter, single-turn conductive plastic
- Excellent resolution
- High rotational life
- Bushing mount
- Gangable up to 10 cups

**Non-standard features and specifications available**
- Ball bearings

### 6674 - Precision Potentiometer

#### Electrical Characteristics
- **Standard Resistance Range**: 1 K to 100 K ohms
- **Total Resistance Tolerance**: ±10%
- **Independent Linearity**: ±0.25%
- **Effective Electrical Angle**: 350° ±2°
- **End Voltage**: 0.1% maximum (0.2% at 2 K ohms, 0.4% at 1 K ohms)
- **Output Smoothness**: 0.1% maximum
- **Shaft End Play**: 0.08 mm (0.003 in.) T.I.R.
- **Shaft Radial Play**: 0.10 mm (0.004 in.) T.I.R.
- **Shaft Radial Runout**: 0.025 mm (0.001 in.) T.I.R.
- **Power Rating (Voltage Limited By Power Dissipation or 350 VAC, Whichever is Less)**
  - **At room ambient**: +25 °C: 2 watts
  - **+125 °C**: 0 watt
- **Insulation Resistance (300 VDC)**: 1,000 megohms minimum
- **Total Resistance Shift**: ±10% maximum
- **Wiper Bounce**: 0.1 millisecond maximum
- **Wiper Indentation**: 0.51 mm (0.020") minimum
- **Effective Electrical Angle**: 350° ±2°
- **Resolution**: Essentially infinite

#### Environmental Characteristics
- **Operating Temperature Range**: -40 °C to +125 °C
- **Storage Temperature Range**: -65 °C to +125 °C
- **Temperature Coefficient Over Storage Temperature Range**: ±5% TRS
- **Vibration**: 0.1 millisecond maximum
- **Total Resistance Shift**: ±10% maximum
- **Shock**: 60 G
- **Load Life**: 100 hours, 1.5 watts
- **Rotational Life (No Load)**: 25,000,000 shaft revolutions
- **Moisture Resistance (MIL-STD-202, Method 106)**
  - **Total Resistance Shift**: ±10% maximum
- **Total Resistance Shift**: ±10% maximum
- **Total Resistance Shift**: ±10% maximum
- **Total Resistance Shift**: ±10% maximum
- **IP Rating**: IP 40

#### Mechanical Characteristics
- **Mechanical Angle**: Continuous
- **Torque (Starting & Running)**: 0.53 N-cm (0.75 oz.-in.) maximum
- **Mounting...** 14.16 - 14.26 mm (20-23 oz.-in.) maximum
- **Shaft End Play**: 0.08 mm (0.003 in.) T.I.R.
- **Shaft Radial Play**: 0.10 mm (0.004 in.) T.I.R.
- **Backlash**: 0.1° maximum
- **Weight 90 gm**
- **Terminals**: Side exit turret terminals

#### Product Dimensions
- **Dimensions**: CDW (3 CW)

#### Recommended Part Numbers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (ohm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6674S-1-102</td>
<td>1,000</td>
</tr>
<tr>
<td>6674S-1-502</td>
<td>5,000</td>
</tr>
<tr>
<td>6674S-1-103</td>
<td>10,000</td>
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</tbody>
</table>

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6674 - Precision Potentiometer

Panel Thickness Dimensions

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

Panel: 2.46 - 3.81 (0.097 - 0.150)

Dimensions: 10.44 ± 0.07

DIA: (.411 ± .003) MM

Tolerances: ± 0.127 (.005)

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