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 %
- Dielectric Strength (VRMS)
- Sea Level: 900 VAC minimum
- Power Rating (Voltage Limited By Power Dissipation or 350 VAC, Whichever is Less)
  +70 °C: 2 watts
  +125 °C: 0 watt
- Insulation Resistance (300 VDC): 1,000 megohms minimum
- Resolution: Essentially infinite
- Moisture Resistance (MIL-STD-202, Method 106)
- Rotational Life (No Load): 25,000,000 shaft revolutions
- Total Resistance Shift: ±10 % maximum
- Load Life: 1,000 hours, 1.5 watts
- Non-standard features and specifications available

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: 15 G
- Shock: 60 G
- Wiper Bounce: 0.1 millisecond maximum
- Load Life: 1,000 hours, 1.5 watts
- Total Resistance Shift: ±10 % maximum
- Rotational Life (No Load): 25,000,000 shaft revolutions
- 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 N-cm (20-23 oz.-in.) maximum
- Shaft Runout: 0.025 mm (0.001 in.) T.I.R.
- 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
- Soldering Condition: 96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire
- Wave Soldering: 96.5Sn/3.0Ag/0.5Cu solder with no-clean flux
- Wash processes: Not recommended
- Marking: Manufacturer's name and part number, resistance value and tolerance, linearity tolerance, wiring diagram, and date code
- Ganging (Multiple Section Potentiometers): 10 cup maximum
- Hardware: One lockwasher (H-37-2) and one mounting nut (H-38-2) is shipped with each potentiometer.

Recommended Part Numbers

<table>
<thead>
<tr>
<th>Part Number*</th>
<th>Resistance (Ω)</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>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

BOLDFACE LISTINGS ARE IN STOCK AND READMELY AVAILABLE THROUGH DISTRIBUTION.
FOR OTHER OPTIONS CONSULT FACTORY.

1At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.
Panel thickness and hole diameters are recommended for best fit. However, customers may adjust the dimensions to suit their specific application.

**Panel Thickness Dimensions**

<table>
<thead>
<tr>
<th>DIMENSIONS: MM (INCHES)</th>
<th>TOLERANCES: ± 0.127 (± 0.005)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.44 ± 0.07 (.411 ± .003) DIA.</td>
<td>2.46 - 3.81 (.097 - .150)</td>
</tr>
</tbody>
</table>