Features
- Servo mount style
- Shaft supported by front and rear precision ball bearings
- Non-standard features and specifications available
- Gangable up to 10 cups

6574 - 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 Withstanding Voltage (MIL-STD-202, Method 301)
Sea Level: 1,000 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 (500 VDC): 1,000 megohms minimum
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: ±500 ppm/°C maximum
Vibration: 15 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
Moisture Resistance (MIL-STD-202, Method 103, Condition B): 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
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: 0.08 mm (0.003 in.) T.I.R.
Pilot Diameter Runout: 0.025 mm (0.001 in.) T.I.R.
Lateral Runout: 0.08 mm (0.003 in.) T.I.R.
Backlash: 0.1 ° maximum
Weight: 89 gm
Terminals: Side exit turret terminals
Soldering Condition: Manual Soldering: 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): Hardware: No hardware included

Recommended Part Numbers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6574S-1-102</td>
<td>1.000</td>
</tr>
<tr>
<td>6574S-1-502</td>
<td>5.000</td>
</tr>
<tr>
<td>6574S-1-103</td>
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