Features

- Snap-in or bushing mount options
- Standard resistance values available
- Digital dial provides excellent readability

3610 - 10-Turn Precision Knobpot®

Electrical Characteristics

- Standard Resistance Range: 100 to 100 K ohms
- Total Resistance Tolerance: ±5%
- Absolute Minimum Resistance: 1 ohm or 0.1% maximum (whichever is greater)
- Noise: 100 ohms ENR maximum
- Dielectric Withstanding Voltage (MIL-STD-202, Method 301): 1,000 VAC minimum, 400 VAC minimum
- Power Rating (Voltage Limited By Power Dissipation or 385 VAC, Whichever is Less):
  +25 °C: 1.5 watts
  +85 °C: 0 watt
- Resolution: See recommended part numbers
- Accuracy (Correlation of Dial Readout to Voltage Ratio Output): ±0.5% voltage ratio
- Repeatability of Dial Readout: ±0.1% voltage ratio

Environmental Characteristics

- Operating Temperature Range: +1 °C to +85 °C
- Temperature Coefficient Over Storage Temperature Range: ±50 ppm/°C maximum/wire
- Wiper Bounce: ±0.1 millisecond maximum
- Total Resistance Shift: ±2% maximum
- Voltage Ratio Shift: ±0.2% maximum
- Shock: ±0.5 G
- Total Resistance Shift: ±2% maximum
- Load Life: 1,000 hours, 1.5 watts
- Total Resistance Shift: ±2% maximum
- Rotational Life (No Load): 50,000 shaft revolutions
- Total Resistance Shift: ±2% maximum
- Moisture Resistance (MIL-STD-202, Method 103, Condition B): ±2% maximum
- IP Rating: IP 60

Mechanical Characteristics

- Stop Strength: 14 N-cm (20 oz.-in.) minimum
- Mechanical Angle: 3600 ° ±20 °, -0 °
- Torque (Starting): 0.71 to 4.94 N-cm (1.0 to 7.0 oz.-in.) maximum
- Torque (Running): 4.94 N-cm (7.0 oz.-in.) maximum
- Variation: ±0.71 N-cm (1.0 oz.-in.) maximum
- Backlash: ±1 ° maximum
- Weight: Approximately 20 gm
- Terminals: Gold-plated J-Hooks
- Soldering Condition:
  - Manual Soldering: 96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire; 370 °C (700 °F) max. for 3 seconds
  - Wave Soldering: 96.5Sn/3.0Ag/0.5Cu solder with no-clean flux; 260 °C (500 °F) max. for 5 seconds
- Wash processes: Not recommended
- Markings: Manufacturer's name and part number, resistance value and tolerance, wiring diagram, and date code

1At room ambient: +25 °C nominal and 50% relative humidity nominal, except as noted.

Recommended Part Numbers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (Ω)</th>
<th>Resolution (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3610S-1-102</td>
<td>1,000</td>
<td>0.035</td>
</tr>
<tr>
<td>3610S-1-502</td>
<td>5,000</td>
<td>0.027</td>
</tr>
<tr>
<td>3610S-1-103</td>
<td>10,000</td>
<td>0.022</td>
</tr>
</tbody>
</table>

BOLDFACE LISTINGS ARE IN STOCK AND READY AVAILABLE THROUGH DISTRIBUTION.

FOR OTHER OPTIONS AND RESISTANCE VALUES, PLEASE CONSULT THE FACTORY.

"Knobpot" is a registered trademark of Bourns, Inc.
Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.
Product Dimensions

3610S-1

PANEL HOLE PATTERN

NOTES:
1. SNAP-IN MOUNTING CUP ACCOMMODATES PANEL THICKNESS .025 THRU .078 (NO. 22GA THRU NO. 14GA) AND .125 .64 .198

3610S-2

PANEL HOLE PATTERN

TOLERANCES: EXCEPT WHERE NOTED
DECIMALS: XX x .000, XXX x .000
FRACTIONS: ±1/64
DIMENSIONS: MM (IN.)

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