FEATURES

• Outstanding resistance to humidity. Exceeds humidity cycling requirements of MIL-R-12934.
• Shaft supported by front and rear ridge precision ball bearings.
• High temperature, moisture resistant thermosetting plastic housing.
• SILVERWELD® termination eliminates vulnerable single wire termination.
• Performance of the Model 3560 is guaranteed by the Bourns Reliability Assurance Program, which includes individual inspection to published electrical and physical characteristics.
• Custom design capability is available to satisfy your most demanding special requirements.

STANDARD RESISTANCES

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Part Number**</th>
<th>Resolution (Percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>35005-1-209</td>
<td>0.187</td>
</tr>
<tr>
<td>50</td>
<td>35005-1-509</td>
<td>0.169</td>
</tr>
<tr>
<td>100</td>
<td>35005-1-101</td>
<td>0.132</td>
</tr>
<tr>
<td>200</td>
<td>35005-1-201</td>
<td>0.102</td>
</tr>
<tr>
<td>500</td>
<td>35005-1-501</td>
<td>0.076</td>
</tr>
<tr>
<td>1,000</td>
<td>35005-1-102</td>
<td>0.065</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Part Number**</th>
<th>Resolution (Percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,000</td>
<td>35005-1-202</td>
<td>0.083</td>
</tr>
<tr>
<td>5,000</td>
<td>35005-1-502</td>
<td>0.047</td>
</tr>
<tr>
<td>10,000</td>
<td>35005-1-102</td>
<td>0.021</td>
</tr>
<tr>
<td>25,000</td>
<td>35005-1-203</td>
<td>0.015</td>
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<tr>
<td>50,000</td>
<td>35005-1-503</td>
<td>0.010</td>
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<tr>
<td>100,000</td>
<td>35005-1-104</td>
<td>0.009</td>
</tr>
</tbody>
</table>

* Silver type bearings available on special cost model 35005-00 BC.

**The last three digits of the part number represent the resistance in ohms.
STANDARD SPECIFICATIONS

THE SPECIFICATIONS LISTED BELOW ARE FOR THE STANDARD MODEL. MODIFICATIONS OF ALL TYPES (MECHANICAL, ELECTRICAL, AND ENVIRONMENTAL) CAN BE CUSTOM ENGINEERED TO YOUR SPECIFIC REQUIREMENTS.

ELECTRICAL CHARACTERISTICS

Resistance Range
25 ohm to 100K

Resistance Tolerance
±2%

Unlinearity (Independent)
±2.5%

Resolution
See standard resistance chart

Effective Electrical Angle
108° (±45°/±2°)

Absolute Minimum Resistance
c.1 ohm or 0.5%, whichever is greater

Noise
100 ohms EMI maximum

Power Input
1.5 watt

Load
0 watt

Dissipation Strength
WRL-12024

Room Conditions
1000 volts AC
50,000 feet (28.8°F)
300 volts AC

Insulation Resistance, 500 volts DC
1000 megohms minimum

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature Range
-65 to +125°C

Temperature Coefficient of Resistance (W25°C)
20 ppm/°C maximum

Humidity
WRL-12024, humidity cycling

Vibration
WRL-12024, 2G

Discontinuity
0.1 millisecond minimum

Wiper Shift, maximum
0.2% ±

Shaft
WRL-12024, 1000

Discontinuity and Wiper Shift
Same as Vibration

Load Life
1000 hours WRL-12024

Resistance Shift
2.0%, maximum

- 3560 -

30 in.

3.75 MAX

20° MAX

120° MAX

90° MAX

C.C.W.

C.C.W.

C.C.W.

C.C.W.

C.C.W.

NOTE:
ADD .750 IN. DIMENSION FOR EACH ADDITIONAL CUP

Bourns, Inc. TRANSPOT PRODUCTS DIVISION
1200 COLUMBIA AVENUE, RIVERSIDE, CALIFORNIA 92507