FEATURES

- Unique INFINITRON® conductive plastic element provides essentially infinite resolution.
- Rotational life: 4,000,000 shaft revolutions.
- Standard linearity 0.5% — special linearities available.
- Output smoothness: 0.1% standard.
- Outstanding resistance to humidity — exceeds moisture resistance requirements of MIL-R-20023.
- Exclusive termination technique insures low end resistance and definite effective electrical angle.
- Custom design capability is available to satisfy your most demanding and difficult special requirements.
- Temperature coefficient: ±200 ppm/°C.

STANDARD RESISTANCES

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Part Number**</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>30215-1-001</td>
</tr>
<tr>
<td>1,000</td>
<td>30215-1-002</td>
</tr>
<tr>
<td>2,000</td>
<td>30215-1-002</td>
</tr>
<tr>
<td>5,000</td>
<td>30215-1-002</td>
</tr>
<tr>
<td>10,000</td>
<td>30215-1-003</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Part Number**</th>
</tr>
</thead>
<tbody>
<tr>
<td>25,000</td>
<td>30215-1-003</td>
</tr>
<tr>
<td>50,000</td>
<td>30215-1-003</td>
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<tr>
<td>100,000</td>
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<td>30215-1-004</td>
</tr>
<tr>
<td>500,000</td>
<td>30215-1-006</td>
</tr>
</tbody>
</table>

*The last three digits of the part number represent the resistance in standard code.

TRIMPOT PRODUCTS DIVISION
STANDARD SPECIFICATIONS

SPECIFICATIONS LISTED BELOW ARE FOR STANDARD MODEL. MODIFICATIONS OF ALL TYPES (MECHANICAL, ELECTRICAL, ENVIRONMENTAL) CAN BE CONTAINED TO YOUR SPECIAL REQUIREMENTS.

ELECTRICAL CHARACTERISTICS

- Resistance Range: 500 to 1,000,000 ohms
- Resistance Tolerance*: ±0.1%
- Linearity (Independent Standard): ±0.5% maximum
- Beam Practical: Overall Factory Radiation: Essentially Inert
- Effective Electrical Angle*: 180° (±10°, —2°)
- Minimum Voltage: 0.1% maximum
- Output Smoothness: 0.1% maximum
- Noise: 100 ohms or 1% E.M. maximum available as 35215-14 (MO)

Power Rating (250 Volts Maximum)
- 70°C: 1.5 volts
- 120°C: 0.5 volt

Dielectric Strength: MIL-R-28202
- 250 volts AC minimum
- 75,000 volts AC maximum
- 500 volts AC minimum
- 1000 megohms minimum

ENVIRONMENTAL CHARACTERISTICS

- Operating Temperature Range: —55° to +125°C

Temperature Coefficient:
Specific temperature coefficient limits vary depending on the resistance value of the potentiometer and the temperature range in which it will be used. In general, the temperature coefficient value of various INFRARED conductive plastic potentiometers is within ±200 ppm/°C.

When requesting exact values, please specify the resistance value of the potentiometer to be used and the temperature range required for your application.

(Mechanical potentiometers are used as voltage dividers, the resistance change due to temperature coefficient does not affect the wiper output as a result of the total output voltage. Therefore, temperature coefficient should not be considered a major or significant specification in this type application.)

Humidity
- MIL-R-8010A Maximum: 50% RH maximum available as 35215-14 (MO)

Vibration
- MIL-V-85262, 200g
- MIL-R-85262, 200g
- MIL-R-85262, 100g

Shock
- MIL-R-85262, 200g
- MIL-R-85262, 100g

Salt Spray
- MIL-E-5272

Fog
- MIL-E-5272

Load Life
- MIL-R-28202, 1,000 hours

Sand and Dust
- MIL-E-5272

MECHANICAL AND PHYSICAL CHARACTERISTICS

- Mechanical Angle*: 1,800° (±10°, —2°)
- Shaft Recess*: 0.002 in. T.I.R.
- Shaft End Plug*: 0.002 in. T.I.R.
- Shaft Radial Play*: 0.005 in. T.I.R.
- Rotational Life: 4,000,000 shaft revolutions
- Stop Strength: 90 oz.-in.
- Torque*: 0.6 oz.-in. maximum

Weight
- Approximately 0.7 oz.

Terminals: Gold-plated

Markings:
- Manufacturer's name and part number, resistance value and tolerance, insertion tolerance, wiring diagram, and date code.

NOTES
- 100% or statistical sample inspection performed to insure highest quality.
- (For 1% to 5% VR Output. Specifications are subject to change without notice.)

TOLERANCES: DECEPTIVE MARKS NOTED
- DECEPTIVE, ±0.25, ±0.50, ±0.75

BURLINGTON, INC. TRIMART PRODUCTS DIVISION
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