Model 220
Industrial Wirewound Potentiometer
1" Long

FEATURES

- Meets or exceeds all requirements of MIL-R-27208 Style RT10.
- Subminiature size — .18 x .315 x 1.0
- High power dissipation — 1.0 watt at 70°C
- Maximum operating temperature 175°C.
- SILVERWELD® termination eliminates vulnerable single wire termination.
- Wiper assembly idles at both ends of travel preventing damage from forced adjustments.
- Excellent shock and vibration stability due to self-locking adjustment screw.

STANDARD RESISTANCES

<table>
<thead>
<tr>
<th>Resistance (ohms)</th>
<th>Part Numbers*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/4&quot; solid wire</td>
</tr>
<tr>
<td>10</td>
<td>220W-1-100</td>
</tr>
<tr>
<td>20</td>
<td>220W-1-200</td>
</tr>
<tr>
<td>50</td>
<td>220W-1-500</td>
</tr>
<tr>
<td>100</td>
<td>220W-1-101</td>
</tr>
<tr>
<td>250</td>
<td>225W-1-251</td>
</tr>
<tr>
<td>500</td>
<td>250W-1-501</td>
</tr>
</tbody>
</table>

When ordering Panel Mount Model add "M" to part number. Example 2251-1-250M. See Panel Mount Section for additional details.

<table>
<thead>
<tr>
<th>Resistance (ohms)</th>
<th>Part Numbers*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/4&quot; solid wire</td>
</tr>
<tr>
<td>1,000</td>
<td>225W-1-102</td>
</tr>
<tr>
<td>2,000</td>
<td>220W-1-202</td>
</tr>
<tr>
<td>5,000</td>
<td>225W-1-502</td>
</tr>
<tr>
<td>10,000</td>
<td>220W-1-103</td>
</tr>
<tr>
<td>25,000</td>
<td>225W-1-253</td>
</tr>
<tr>
<td>50,000</td>
<td>220W-1-503</td>
</tr>
</tbody>
</table>

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

OBSCOLETE
SPECIFICATIONS

ELECTRICAL CHARACTERISTICS
Standard Resistance Range (See chart on front) 10 to 35,000 ohms
Resistance Tolerance +5% standard, other tolerances available
Absolute Minimum Resistance 0.1% or 1.0 ohm, whichever is greater
Continuity Maintained for full mechanical range
Noise during adjustment 300 ohms maximum
Insulation Resistance, 500 volts DC 1,000 megohms minimum
Resolution (See chart on front) 100 to 1.56 ohms

ENVIRONMENTAL CHARACTERISTICS
Power Ratings
20°C 1.0 watt
125°C 0.25 watt
70°C 0 watt
Operating Temperature Range 0°C to 72°C
Temperature Coefficient (per MIL-R-27258) 1000 / 325°C = 3 parts per thousand maximum
Moisture Resistance, MIL-R-27258 100 ohms minimum insulation resistance
Vibration MIL-R-22280, 0.9g
Contact Torque 0.4 to 0.5 millinewton maximum
Wiper Shift Maximum 0.3% or resolution, whichever is greater

PHYSICAL CHARACTERISTICS
Shaft Torque 5 oz-in. minimum
Markings Manufacturer’s trademark, wiring diagram, date code, resistance, and manufacturer’s part number (customer’s part number optional)
Mechanical Adjustment 15 turns nominal
Mechanical Stops Wiper assembly ides
Weight Approximately 0.06 oz.
Terminals: 1. Male, soldered stranded leads, 22 AWG (0.020) 0.7 strands/23 AWG
W Solderable printed circuit pins
P Solderable printed circuit pins
Specification Note: Closer performance tolerances can be supplied upon request. Specifications are subject to change without notice.

BOURNS, INC., TRIMPOT PRODUCTS DIVISION
1290 COLUMBIA AVENUE, RIVERSIDE, CALIFORNIA 92507
TELEPHONE: (714) 781-5000