FEATURES

- Meets or exceeds all requirements of MIL-R-27208
- High power dissipation
  1.0 watt at 70°C
- High operating temperature (175°C)
- Sealed against humidity, liquids, and potting & soldering compounds.
- 22-turn screwdriver adjustment.
- SILVERWELD® termination alloys with multiple resistance wires and eliminates vulnerable single wire termination.
- Excellent shock, vibration, and acceleration stability due to self-locking adjustment screw.
- Each instrument individually inspected for guaranteed electrical and physical characteristics.

STANDARD RESISTANCES

<table>
<thead>
<tr>
<th>Resistance (ohms)</th>
<th>Part Numbers*</th>
<th>Nominal Resolution (percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>224L stranded insulated leads</td>
<td>224S solder lugs</td>
</tr>
<tr>
<td>10</td>
<td>224L-1-100</td>
<td>224S-1-100</td>
</tr>
<tr>
<td>20</td>
<td>224L-1-200</td>
<td>224S-1-200</td>
</tr>
<tr>
<td>50</td>
<td>224L-1-500</td>
<td>224S-1-500</td>
</tr>
<tr>
<td>100</td>
<td>224L-1-101</td>
<td>224S-1-101</td>
</tr>
<tr>
<td>200</td>
<td>224L-1-201</td>
<td>224S-1-201</td>
</tr>
<tr>
<td>500</td>
<td>224L-1-501</td>
<td>224S-1-501</td>
</tr>
<tr>
<td>1,000</td>
<td>224L-1-102</td>
<td>224S-1-102</td>
</tr>
</tbody>
</table>

SPECIAL RESISTANCES AVAILABLE FROM 10 OHMS TO 100K

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

Panel Mount Model 224 available with leads or solder lugs.**

Model 224 TRIMPOT® Potentiometer

SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Standard Resistance Range (See chart on front) ... 10 to 100,000 ohms
Resistance Tolerance* ... ±5% standard, closer tolerances available
Absolute Minimum Resistance* ... 10 ohms to 200 ohms 0.25% or 1 ohm, whichever is greater
50 ohms to 2K ... 0 to 0.2% 0 to 0.1% 0 to 5%
5K to 50K ohms ... 0 to 0.2% 0 to 5%
100K ... 0 to 5%
Continuity* ... Maintained for full mechanical range
Noise during Adjustment* ... 100 ohms ENR maximum
Insulation Resistance, 500 volts D.C.* ... 1000 megohms minimum
Resolution (See chart on front) ... 0.13 to 1.90%

ENVIRONMENTAL CHARACTERISTICS

Power Ratings:
70°C ... 1.0 watt
125°C ... 0.5 watt
175°C ... 0.0 watt
Operating Temperature Range ... -65 to -175°C
Temperature Coefficient Per MIL-R-27208 ... 50 ppm/°C maximum
Moisture Resistance, MIL-R-27208 ... 100 megohms minimum insulation resistance after removal from chamber
Vibration ... MIL-R-27208, 30G
Contact Bounce ... 0.1 millisecond maximum
Wiper Shift, Maximum ... 0.5% or Resolution, whichever is greater
Shock ... MIL-R-27208, 100G
Contact Bounce and Wiper Shift ... Same as Vibration

Sand and Dust ... Meets MIL-E-5272, Procedure 1
Salt Spray ... Materials meet MIL-R-27208
Fungus ... Materials meet MIL-E-5272
Load Life ... 1000 hours per MIL-R-27208
Resistance Shift, Maximum ... 2%
Mechanical Life ... 500 cycles without discontinuity
Dielectric Strength ... MIL-R-27208
Room Conditions ... 1590 volts A.C.
89,000 feet (0.8" Hg) ... 500 volts A.C.

PHYSICAL CHARACTERISTICS

Immersion Leak Test* ... No leaks
Shaft Torque* ... 5.0 oz.-in. maximum
Markings* ... Manufacturer's name, wiring diagram, date code, resistance and manufacturer's part number (customer's part number optional)
Appearance* ... Legible markings, no physical defects
Mechanical Adjustment ... 22 turns nominal
Mechanical Stops ... Wiper assembly idles
Weight ... Approximately 0.1 oz.
Terminals:
L ... Teflon insulated stranded leads, 30 AWG (.024 O.D.) 7 strands/38 AWG
P ... Gold plated solder lugs
6 ... Gold plated A nickel printed circuit pins

*Inspection Note: Applicable 100% or statistical sampling inspection performed to insure foremost quality.
Specification Note: Closer performance tolerances can be supplied upon request. Specifications subject to change without notice.

NOTE: SEALING CEMENT MENISCUS ON FLEXIBLE LEADS: 0 to .033" MAXIMUM SEALING CEMENT MENISCUS ON SOLID TERMINALS: 0 to .022" MAXIMUM

OBSCOLETE

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