FEATURES

- Space-saving housing depth 1 1/4 inch.
- SILVERWELD® termination eliminates vulnerable single-wire termination.
- Special rotor and slider design assures excellent wiper stability.
- Individual inspection of each potentiometer to guaranteed electrical and physical specifications.
- High performance at low cost.

STANDARD RESISTANCES

<table>
<thead>
<tr>
<th>Resistance (ohms)</th>
<th>Part Number*</th>
<th>Resolution (mV per ohm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>3507S-1-00</td>
<td>0.004</td>
</tr>
<tr>
<td>100</td>
<td>3507S-1-01</td>
<td>0.005</td>
</tr>
<tr>
<td>200</td>
<td>3507S-1-02</td>
<td>0.013</td>
</tr>
<tr>
<td>500</td>
<td>3507S-1-04</td>
<td>0.033</td>
</tr>
<tr>
<td>1,000</td>
<td>3507S-1-10</td>
<td>0.059</td>
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<tr>
<td>2,000</td>
<td>3507S-1-20</td>
<td>0.129</td>
</tr>
<tr>
<td>5,000</td>
<td>3507S-1-50</td>
<td>0.319</td>
</tr>
</tbody>
</table>

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

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**TRIMPOT PRODUCTS DIVISION**

OCTOBER 1983

150-4-676/7
**STANDARD SPECIFICATIONS**

**ELECTRICAL CHARACTERISTICS**
- **Resistance Paper**: 50 to 250,000 ohms
- **Resistance Tolerance**: ±10%
- **Linearity (Independence)**: ±30%, maximum deviation
- **Effective Electrical Angle**: 360° (±10° inclusive)
- **Absolute Maximum Resistance**: 10% of 250,000 ohms, whichever is greater
- **Wattage**: 1000 milliwatts
  - **Power Rating**: 25° 6.3 vac, 3.0 watts
  - **Dissipation**: MIL-A-12904
  - **Vibration**: MIL-A-25964
- **Environmental Characteristics**
  - **Operating Temperature Range**: -55° to +105°C
  - **Humidity**: 20% (max) / 95% (min)
- **Wiper Bounce and Shift**: MIL-A-12904, 900s
- **Shock**: MIL-A-12904, 900s
- **Salt Spray**: MIL-E-5272

**MECHANICAL AND PHYSICAL CHARACTERISTICS**
- **Mechanical Angle**: 360° (±10° inclusive)
- **Rotational Life**: 200,000 shaft revolutions
- **Size**: 48 x 48, maximum
- **Weight**: 6.0 oz (max)
- **Terminals**: Gold plated, purist high quality

** NOTES **
- 100% or statistical sample inspection performed to insure highest quality. Specifications are subject to change without notice.

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**DIAGRAM**

- **Wiper C.O.M.**: 1/16 ± 1/16
- **Shaft Dia**: 3/32 in. or 3/32 in.
- **Anti-Rotation Pin**: 1/8 dia. or 7/32 in.

**TOLERANCES**: UNLESS OTHERWISE SPECIFIED
- Decimal: XX ± .010 .XXX ± .005
- Fraction: ± .005

**CLOCKWISE**

**Bourns®, INC., THORNATE PRODUCTS DIVISION**
100 COLUMBIA AVENUE, RIVERSIDE, CALIFORNIA 92507