FEATURES

- Unique Micro-Miniature design...
  Only ¾” square, uses same element as ½” designs for high resistance values — up to 50K
  High power rating — 1.0 watt at 70°C
- Special Mounting Features...
  Single central hole for screw mounting;
  Stacking tabs for alignment & anti-rotation locking
- All Plastic Case that provides...
  Positive end stops at both ends of travel
  Sealing against liquids and potting compounds
  Reliable moisture resistance
  175°C max. operating temperature
- Clutch action wiper to prevent damage from forced adjustment
- Bourns famous...
  SILVERWELD® multi-wire termination
  Reliability Assurance Program

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>3280L Stranded Insulated Leads</td>
<td>3280P Printed Circuit Pins</td>
</tr>
<tr>
<td>10</td>
<td>3280L-1-100</td>
<td>3280P-1-100</td>
</tr>
<tr>
<td>20</td>
<td>3280L-1-200</td>
<td>3280P-1-200</td>
</tr>
<tr>
<td>50</td>
<td>3280L-1-500</td>
<td>3280P-1-500</td>
</tr>
<tr>
<td>100</td>
<td>3280L-1-101</td>
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<td>3280L-1-201</td>
<td>3280P-1-201</td>
</tr>
<tr>
<td>500</td>
<td>3280L-1-501</td>
<td>3280P-1-501</td>
</tr>
<tr>
<td>1,000</td>
<td>3280L-1-102</td>
<td>3280P-1-102</td>
</tr>
</tbody>
</table>

*SPECIAL RESISTANCES AVAILABLE FROM 10Ω TO 50KΩ

<table>
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<th>Nominal Resolution (Percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3280L Stranded Insulated Leads</td>
<td>3280P Printed Circuit Pins</td>
</tr>
<tr>
<td>2,000</td>
<td>3280L-1-202</td>
<td>3280P-1-202</td>
</tr>
<tr>
<td>5,000</td>
<td>3280L-1-502</td>
<td>3280P-1-502</td>
</tr>
<tr>
<td>10,000</td>
<td>3280L-1-103</td>
<td>3280P-1-103</td>
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<tr>
<td>20,000</td>
<td>3280L-1-203</td>
<td>3280P-1-203</td>
</tr>
<tr>
<td>25,000</td>
<td>3280L-1-253</td>
<td>3280P-1-253</td>
</tr>
<tr>
<td>50,000</td>
<td>3280L-1-503</td>
<td>3280P-1-503</td>
</tr>
</tbody>
</table>

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

**ELECTRICAL CHARACTERISTICS**
- Resistance Values (See chart on front): 100 to 50K ohms
- Resistance Tolerance*: ±5% Standard, Closer tolerances available
- Absolute Minimum Resistance*: 0 to 0.1% or 0 to 1.0%, whichever is greater
- Continuity*: Maintained for full mechanical range
- Noise During Adjustment*: 000 ENR Maximum
- Insulation Resistance, 500 VDC*: 1000 Megohms minimum
- Resolution (See chart on front): 1.25 to .1%  

**ENVIRONMENTAL CHARACTERISTICS**
- Power Ratings: 70°C (158°F) Ambient: 1.0 watt
  - 125°C (257°F) Ambient: 0.5 watt
  - 175°C (347°F) Ambient: 0 watt
- Operating Temperature Range: -65 to +150°C (–85 to +302°F)
- Temperature Coefficient: 0.005%/°C Maximum with contact arm on active portion of element 2000 thru 5000
- Moisture Resistance, MIL-R-2702A: 100 Megohms minimum  

**PHYSICAL CHARACTERISTICS**
- Dielectric Strength: MIL-R-2702A
  - Room Conditions: 1000 VAC
  - 80,000 feet (8.8° Hg): 400 VAC

- PHYSICAL CHARACTERISTICS
  - Immersion Test*: No leaks
  - Shaft Torque*: 5.0 oz-in Maximum
  - Markings*: Manufacturer's name, wiring diagram, code resistance and manufacturer's part number (customer's part number optional)
  - Appearance*: Legible markings, no physical defects
  - Mechanical Adjustment: 25 Turns Nominal
  - Mechanical Stops: Wiper assembly stops
  - Weight: Approximately .03 oz.

**Terminals**: Teflon Insulated Stranded Leads, 7 strands/.08 AWG
- Gold Plated Grade A Nickel Printed Circuit Pins

**Mounting**: Mount by printed circuit pin or insertion of a #1 screw through central mounting hole, locating anti-rotation tab in adjacent hole. Stacking afforded by mating of one potentiometer's anti-rotation tab to another's anti-rotation hole.

*Inspection Note: Applicable 100% and statistical sampling performed to insure foremost quality.

**Specification Note**: Closer performance tolerances can be supplied upon request.

**Specifications are subject to change without notice.**

1. When mounting the "W" version by the printed circuit pins, the vibration specification is 20G.

2. Note: The "W" terminal type is also available with the leadscrew at right angles to the pin. This feature is specified by the special center number "66" as follows: 3260W-66. For additional information.

3. Note: The "P" terminal type is available with molded standoffs. This feature is specified by model number 3260P-45. For additional information.

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**3280 L**

- **ANTI-ROTATION HOLE**: .070 DIA X .022 DEEP
- **ELECTRICAL ADJUSTMENT**: .09 DIA X .025 WIDE SLOT
- **PLASTIC ANTI-ROTATION TAB**: .052 DIA X .015 LONG
- **.074 MIN DIA MOUNTING HOLE**: (NO. 1 SCREW CLEARANCE)
- **3 INSULATED LEADS**: NO. 30 JWG 0.00 MIN LENGTH, DIA OVER INSULATION .024
- **WIRING DIAGRAM**: CW

**3280 P**

- **ELECTRICAL ADJUSTMENT**: .09 DIA X .025 WIDE SLOT
- **.074 MIN DIA MOUNTING HOLE**: (NO. 1 SCREW CLEARANCE)
- **24 AWG (.020 DIA)**

**3280 W**

- **ELECTRICAL ADJUSTMENT**: .09 DIA X .025 WIDE SLOT
- **.074 MIN DIA MOUNTING HOLE**: (NO. 1 SCREW CLEARANCE)
- **24 AWG (.020 DIA)**

**TOLERANCES**: DECIMAL .XX± .010.XXX±.005, FRACTION: ±1/64

BOURNS, INC., TRIMPOT® DIVISION, 1200 COLUMBIA AVE., RIVERSIDE, CALIF.