Features
- Surface Mount 4 mm Square / Multiturn
- Cermet / Industrial / Sealed
- Halogen free** with date code 114
- Sealed to withstand board wash processing
- Pick and place centering design, with flush adjustment
- 4mm design meets EIA/EIAJ/IPC/VECI SMD standard trimmer footprint
- Low CRV - 1 %
- RoHS compliant* - see processing information on RoHS compliant surface mount trimmers
- For trimmer applications/processing guidelines, click here

** "Halogen free" means that the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

---

Electrical Characteristics

Standard Resistance Range

10 to 2 megohms (see standard resistance table)

Resistance Tolerance .......... ±10 % std.

Absolute Min. Resistance .... 1 % or 2.0 ohms (whichever is greater)

Contact Resistance Variation

1 % or 3 ohms max.

Resolution ..................... Essentially infinite

Insulation Resistance ............ 500 vdc.

Dielectric Strength

Sea Level .................... 600 vac (1 minute)

Thermal Shock .................. 5 cycles

Vibration ..................... 20 G TRS±1 %; VRS±1 %

Moisture Sensitivity Level ............. N/A

Seal Test ..................... 85 °C Fluorinert†/60 seconds

Temperature Coefficient

Temperature Range ............ -65 °C to +150 °C

Mechanical Stop .............. Wiper idles

Physical Characteristics

- Wiper ................. Per MIL-STD-202, Method 208
- Pushover Strength J, G, W, X ............. 4.4 lbs.
- Weight ................. 1 lb.
- Adjustment Tool ........... H-91

Product Dimensions

3224J Side Adjust

3224G Side Adjust

3224W Top Adjust

3224X Top Adjust

Environmental Characteristics

Power Rating (300 volts max.)

85 °C ..................... 0.25 watt
150 °C ..................... 0 watt

Temperature Range ............ -65 °C to +150 °C

Temperature Coefficient .......... ±100 ppm°C

Seal Test ..................... 85 °C Fluorinert†/60 seconds

Humidity ..................... MIL-STD-202 Method 106

TRS ±2 %; VRS±1 %

Vibration ..................... 20 G TRS±1 %; VRS±1 %

Shock ..................... 100 G TRS±1 %; VRS±1 %

Load Life ....@ 85 °C rated power 1,000 hours

Rotational Cycling .................. 200 cycles

TRS±2 %; VRS±1 %

Thermal Shock .................. 5 cycles

Moisture Sensitivity Level ............. N/A

ESD Classification ............... 2

Dimensions

<table>
<thead>
<tr>
<th>Feature</th>
<th>MM (INCHES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIA. 3 PLCS.</td>
<td>1.2 (0.047)</td>
</tr>
<tr>
<td>0.6 (0.026) WIDE</td>
<td>0.8 (0.032) DEEP</td>
</tr>
<tr>
<td>0.8 (0.032) 2 PLCS.</td>
<td>1.3 (0.051)</td>
</tr>
<tr>
<td>1.5 (0.059)</td>
<td>1.5 (0.059)</td>
</tr>
<tr>
<td>2.6 (0.102)</td>
<td>2.6 (0.102)</td>
</tr>
<tr>
<td>3.9 (0.152)</td>
<td>3.9 (0.152)</td>
</tr>
<tr>
<td>4.8 (0.189)</td>
<td>4.8 (0.189)</td>
</tr>
<tr>
<td>6.0 (0.236)</td>
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<tr>
<td>4.8 (0.189)</td>
<td>4.8 (0.189)</td>
</tr>
<tr>
<td>5.7 (0.225)</td>
<td>5.7 (0.225)</td>
</tr>
<tr>
<td>0.8 (0.032) 2 PLCS.</td>
<td>1.3 (0.051)</td>
</tr>
<tr>
<td>1.5 (0.059)</td>
<td>1.5 (0.059)</td>
</tr>
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<tr>
<td>6.0 (0.236)</td>
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</tr>
</tbody>
</table>

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** Bourns follows the prevailing definition of “halogen free” in the industry. Bourns considers a product to be “halogen free” if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

* "Trimpot” is a trademark of Bourns, Inc. † "Fluorinert” is a registered trademark of 3M Co.

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**3224 - 4 mm SMD Trimpot® Trimming Potentiometer**

### Additional Features
- Top and side adjust styles
- J-hook, and gull-wing

### Packaging Specifications

#### J & G Styles

- Top and side adjust styles
- J-hook, and gull-wing

#### W Style

- W & X Style Reel

### W & X Style Reel

- Cover tape peel strength: Meets EIA specification 481.

### How To Order

- **Model**
- **Style**
- **Standard or Modified**
- **Product Indicator**
  - -1= IR Reflow (standard)
  - †-2= Wave Solderable
  - **Resistance Code**
    - E = Style J, G: 500 pcs./7” reel (standard)
    - Style W: 250 pcs./7” reel (standard)
    - Style X: 200 pcs./7” reel (standard)
    - Style W: 1000 pcs./13” reel (standard)
    - Style X: 850 pcs./13” reel (standard)
    - Blank = Style J, G: 1500 pcs./13” reel (FW5)
    - Style W, X: 600 pcs./13” reel (FW5)

Consult factory for other available options.

†-2 has a treated stainless steel shaft.

Tape and reel material meets Antistatic ANSI/ESD 5541-2003 packaging standards.

### Standard Resistance Table

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
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</tr>
<tr>
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<td>200</td>
</tr>
<tr>
<td>50</td>
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<tr>
<td>1,000</td>
<td>102</td>
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<tr>
<td>2,000</td>
<td>202</td>
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</table>

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<td>103</td>
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<tr>
<td>1,000,000</td>
<td>105</td>
</tr>
<tr>
<td>2,000,000</td>
<td>205</td>
</tr>
</tbody>
</table>

Popular distribution values listed in boldface. Special resistances available.

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