**Features**
- Surface Mount / Single Turn / Cermet Industrial / Sealed
- Compatible with surface mount manufacturing processes
- Compatible with popular vacuum pick-and-place equipment
- J-hook, gull-wing & pinned configurations
- Side adjust available
- Meets EIA/EIAJ/JPC/VECI SMD standard trimmer designs
- RoHS compliant* - see processing information on lead free surface mount trimmers
- For trimmer applications/processing guidelines, click here
- AEC-Q200 Qualified Grade 1

### Electrical Characteristics

**Standard Resistance Range**
- 10 ohms to 2 megohms (see standard resistance table)
- Resistance Tolerance: ±20% std.
- End Resistance: ±1% or 2 ohms max.
- Contact Resistance Variation: ±3% or 3 ohms
- Resolution: 3 ohms
- Insulation Resistance: 500 Vdc.
- Infinite resistance range
- Standard Resistance Range (see standard resistance table)
- TRS ±3%
- TRS ±2%; IR 10 megohms

**Environmental Characteristics**
- Power Rating (300 volts max. for Style G, J & H; 50 volts max. for Style FI)
  - 70 °C: 0.25 watt
  - 125 °C: 0 watt
- Temperature Range: -55 °C to +125 °C
- Temperature Coefficient: ±100 ppm/°C
- Seal Test: 85 °C Fluorinert®/60 seconds
- Humidity: 90-98% RH, 10 cycles, 240 hours
- TRS ±2%; IR 10 megohms
- Vibration: 20 G TRS ±1%; VRS ±1%
- Shock: 100 G TRS ±1%; VRS ±1%
- Load Life: ±2%; TRS ±3%
- Rotational Life: 100 cycles
- Thermal Shock: 5 cycles
- TRS ±2%; VRS ±1%

**Physical Characteristics**
- Mechanical Angle: 240 ° nom.
- Torque: 180 g-cm max.
- Pushover Strength: 1.6 kilograms (3.5 lbs.) min.
- Weight: Approximately 0.01 oz. (Actual TR)
- Flammability: UL 94V-0
- Standard Packaging:
  - J, G and R: 500 pcs./7" reel (MSL-1)
  - S and Z: 200 pcs./7" reel (MSL-1)
  - H: 100 pcs./tube
- Adjustment Tool: H-90

### Product Dimensions

#### 3314J-1

- Dimensions: 4.50 (117)
- Recommended PCB Layout

#### 3314H-1

- Dimensions: 5.00 (127)
- Recommended PCB Layout

#### 3314G-1

- Dimensions: 4.50 (117)
- Recommended PCB Layout

#### 3314J-2, G-2, R-2, H-2

- Dimensions: 5.00 (127)
- Dimensions: 5.00 (127)
- Recommended PCB Layout

#### 3314J-3, G-3, R-3, H-3

- Dimensions: 5.00 (127)
- Recommended PCB Layout

#### 3314J-4, G-4, R-4, H-4

- Dimensions: 5.00 (127)
- Recommended PCB Layout

**Dimensions:**
- Tolerances: ±0.30 (0.012)
- Except where noted

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**Product Dimensions**

**3314-1**
- Bourns Marking, Straight Slot
- Rotor positioned as shown within ±22° of centerline of terminal 2
- Recommended PCB layout

**3314-S-1**
- Bourns Marking, Straight Slot
- Rotor positioned as shown within ±22° of centerline of terminal 2

**3314-S-2**
- Bourns Marking, Cross Slot
- Rotor positioned as shown within ±22° of centerline of terminal 2

**3314-S-3**
- Reverse Marking, Straight Slot
- Rotor positioned as shown within ±22° of centerline of terminal 2

**3314-S-4**
- Reverse Marking, Cross Slot
- Rotor positioned as shown within ±22° of centerline of terminal 2

**Common Dimensions**

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### Packaging Specifications

#### (R Style)

**Tape**

- 3.5 ± 0.10
- 1.5 ± 0.10
- 1.75 ± 0.10

**Reel**

- Min. 1.50
- 13.0 × 0.51

*Embosed Tape Designator "E"*

**Dimensions:**

<table>
<thead>
<tr>
<th>Tolerance</th>
<th>0.30</th>
</tr>
</thead>
</table>

#### (R-GMS Style)

**Tape**

- 3.5 ± 0.10
- 1.5 ± 0.10
- 1.75 ± 0.10

**Dimensions:**

<table>
<thead>
<tr>
<th>Tolerance</th>
<th>0.30</th>
</tr>
</thead>
</table>

#### (S Style)

**Tape**

- 0.50 ± 0.05

**Reel**

- Min. 1.50
- 13.0 ± 0.51

*Embosed Tape Designator "E"*

**Dimensions:**

<table>
<thead>
<tr>
<th>Tolerance</th>
<th>0.30</th>
</tr>
</thead>
</table>

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**3314-4 mm Square Trimpot® Trimming Potentiometer**

**How To Order**

- **Model**: 3314 J - 1 - 502 E
- **Style**
  - Standard or Modified Product Indicator (Styles J, G, H & S)
    - -1 = Single Slot
    - -2 = Cross Slot
    - -3 = Single Slot w/Reverse Marking
    - -4 = Cross Slot w/Reverse Marking
  - Product Indicator (Style R only)
    - -GM5 = Cross Slot w/Extended Lead Frame
    - -1 = Single Slot
    - -2 = Cross Slot
    - -3 = Single Slot w/Reverse Marking
    - -4 = Cross Slot w/Reverse Marking
  - Product Indicator (Style Z only)
    - -GA4 = Single Slot
    - -1 = Cross Slot
    - -3 = Single Slot w/Reverse Marking
    - -4 = Cross Slot w/Reverse Marking
- **Resistance Code**
  - Embossed Tape Designator (MSL-1)**
    - E = Styles J, G and R: 500 pcs./7" reel
      - Styles S and Z: 200 pcs./7" reel
    - G = Styles J and G: 3000 pcs./13" reel
      - Style R: 2500 pcs./13" reel
      - Styles S and Z: 1000 pcs./13" reel
  - **Style H is available in tube packaging only.
  - 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>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>100</td>
</tr>
<tr>
<td>20</td>
<td>200</td>
</tr>
<tr>
<td>50</td>
<td>500</td>
</tr>
<tr>
<td>100</td>
<td>101</td>
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<tr>
<td>200</td>
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<td>1,000</td>
<td>102</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.

**Tape and Reel Specifications**

- **Dimensions**: MM (INCHES)
  - TOLERANCES: ±0.30 (0.012)
  - EXCEPT WHERE NOTED

**Packaging Specifications**

- **TAPE**
  - REEL
    - MIN. DIA. = 1.50 (0.059)
    - MIN.
      - **DIA.** = 1.50 (0.059)
    - MIN. = 1.50 (0.059) - EQUAL SPACED 3 PLCS.
- **REEL**
  - MIN. DIA. = 1.50 (0.059)
  - MIN.
    - **DIA.** = 1.50 (0.059)
  - MIN. = 1.50 (0.059) - EQUAL SPACED 3 PLCS.

**REO. 08/28/19**

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**Contact Information**

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com
Europe: Tel: +36 88 885 877 • Email: eurocus@bourns.com
The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com
www.bourns.com
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