Bourns® Trimpot® products are available through our extensive network of manufacturers’ representatives, agents and distributors. To obtain technical applications assistance, a quotation, or to place an order, contact a Bourns representative in your area.

Specifications subject to change without notice. Actual performance in specific customer applications may differ due to the influence of other variables. Customers should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.
Applications by Market

Aerospace & Military
- Military radios
- Radar systems
- Analytical equipment
- Transmission equipment
- Avionics
- Laser altimeters

Communications
- Power supplies
- Base stations
- Satellite systems
- Portable handheld radios
- GPS navigation
- Set top boxes

Industrial
- Sensors
- Relays
- Laser Osis drivers
- CCTV cameras
- Automated gate doors
- Fire alarms
- Metal detectors
- Fluid measurements
- Smoke detectors
- Industrial graphics printers
- RFID systems
- Proximity sensors
- Bar code scanners

Instrumentation
- Oscilloscopes
- Network analyzers
- Calibration equipment
- Radiation and X-ray systems
- Laser scanners
- Timers
- Counters
- Power supplies

Medical*
- Convections
- Scanners
- Medical meters
- Communication equipment
- Temperature and respiratory monitors
- Power supplies
- Blood chemical analyzers
- Medical diagnostic equipment

Professional Audio
- Mixing consoles
- Sound processors
- Electric guitars
- Sound processors
- Professional audio
- Medical diagnostic equipment
- Medical meters
- Scanners

Bourns® Trimpot® Sealed SMD Cermet Trimming Potentiometers

<table>
<thead>
<tr>
<th>Model</th>
<th>Resistance Range</th>
<th>Tolerance</th>
<th>Temp. Coefficient</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>3314</td>
<td>0.25 watts 10 ohms to 1000 ohms</td>
<td>±10%</td>
<td>0°C to +125°C</td>
<td>Available RoHS and side adjust options</td>
</tr>
<tr>
<td>3361</td>
<td>0.25 watts 10 ohms to 1000 ohms</td>
<td>±10%</td>
<td>0°C to +125°C</td>
<td>Available RoHS and side adjust options</td>
</tr>
</tbody>
</table>

Hubb® product has been designed for use under standard home wiring & "3-Wire" or "4-Wire" systems applications where other applications require the use of a standard 3-Wire system.

Bourns product may require a fuse or safety device. See legal disclaimer at http://www.bourns.com/legal/disclaimer.pdf.

Available in top and side adjust options (RoHS compliant)
## Introduction

The Bourns Trimpot product line offers the largest array of surface mount, sealed trimming potentiometers in the industry along with 3 new SMD trimmer series from the Murata trimmer acquisition. The Trimpot product line takes full advantage of Bourns’ core competencies in ceramics, thick-film printing, welding and brazing, resulting in reliable electronic components. Assembled in factories offering lean principles and state-of-the-art assembly equipment, our surface mount trimming potentiometers provide our customers with exceptional value.

Bourns is the only supplier to offer mid-drawing qualified surface mount sealed trimmers. Those special models with limited military testing are readily available through any of our authorized distribution partners. These models can be ordered by using the military drawing numbers 88009 (3214), 88010 (2620), 90227 (2314B), and 90227 (2324).

Trimpot® products are available in RoHS compliant versions and are manufactured in facilities that are ISO 9001 certified. Bourns’ Trimpot® Potentiometer products are manufactured in IATF 16949 compliant facilities.

The Bourns Trimpot product line offers various special options to suit your particular application. Available options include extended shafts, custom wiper settings, and tighter total resistance tolerances.

Bourns’® Trimpot® products are aligned with world-renowned and regional distributors. Log on to our website, www.bourns.com for the most current Bourns authorized distributor listing to ensure a continual supply of genuine Bourns'® products.

## Worldwide Sales Offices

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<tr>
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<td>+1-951-769-1500</td>
<td><a href="mailto:americus@bourns.com">americus@bourns.com</a></td>
</tr>
<tr>
<td>Brazil</td>
<td>+55 11 5505 0601</td>
<td><a href="mailto:americus@bourns.com">americus@bourns.com</a></td>
</tr>
<tr>
<td>China</td>
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<td><a href="mailto:asiacus@bourns.com">asiacus@bourns.com</a></td>
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<tr>
<td>Europe, Middle East, Africa</td>
<td>+36 88 885 877</td>
<td><a href="mailto:eurocus@bourns.com">eurocus@bourns.com</a></td>
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<tr>
<td>Japan</td>
<td>+81 49 269 3204</td>
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<td>Korea</td>
<td>+82 70 4036 7730</td>
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<tr>
<td>Singapore</td>
<td>+65 6348 7227</td>
<td><a href="mailto:asiacus@bourns.com">asiacus@bourns.com</a></td>
</tr>
<tr>
<td>Taiwan</td>
<td>+886-2-26421177</td>
<td><a href="mailto:asiacus@bourns.com">asiacus@bourns.com</a></td>
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<tr>
<td>Other Asia-Paciﬁc Countries</td>
<td>+886-2-26421177</td>
<td><a href="mailto:asiacus@bourns.com">asiacus@bourns.com</a></td>
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## Technical Assistance

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## Bourns® Trimpot® Sealed SMD Cermet Trimming Potentiometers

### Model Numbers

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Component Value</th>
<th>Package Options</th>
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<tbody>
<tr>
<td>3214</td>
<td>Single</td>
<td>0, 1, 2, 3, 4</td>
</tr>
<tr>
<td>3223</td>
<td>Single</td>
<td>0, 1, 2, 3, 4</td>
</tr>
<tr>
<td>3224</td>
<td>Single</td>
<td>0, 1, 2, 3, 4</td>
</tr>
<tr>
<td>3269</td>
<td>Single</td>
<td>0, 1, 2, 3, 4</td>
</tr>
<tr>
<td>3312</td>
<td>Single</td>
<td>0, 1, 2, 3, 4</td>
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<td>3313</td>
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<td>PVG3</td>
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</tr>
<tr>
<td>PVG5</td>
<td>Single</td>
<td>0, 1, 2, 3, 4</td>
</tr>
</tbody>
</table>

### Notes

2. T = Tubes, B = Bulk, R = Tape and Reel.

3. T = Top Adjust, S = Side Adjust, R = Rear Adjust.

4. Note: (x) = Trimpot® 500 Series, (y) = Trimpot® 700 Series, (z) = Trimpot® 900 Series, (*Note: T = Top Adjust, S = Side Adjust, R = Rear Adjust)

5. **Bourns** products are available through an extensive network of distributors, representatives, agents, and dealers. To obtain technical specifications or a distributor who supplies a specific model, please refer to the Bourns authorized distributor listing on our website www.bourns.com.

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*Technical Assistance: Americas (888) 266-4888, Europe (888) 266-4888*
## Applications by Market

### Aerospace & Military
- Set-Top Boxes
- GPS Navigation
- Portable/Handheld Radios
- Satellite Systems
- Base Stations
- Power Supplies

### Communications
- Analytical Equipment
- Radar Systems
- Control Systems
- Military Radios
- Aerospace & Military

### Industrial
- Sensors
- Relays
- Laser Diode Drivers
- CCTV Cameras
- Automated Gates/Doors
- Fire Alarms
- Metal Detectors
- Fluid Measurements
- Smoke Detectors
- Industrial/Graphic Printers
- RFID Systems
- Industrial/Graphic Printers
- Smoke Detectors
- Metal Detectors
- Fire Alarms

### Instrumentation
- Counters
- Timers
- Laser Scanners
- Radiation and X-ray Testers
- Calibration Equipment
- Network Analyzers
- Oscilloscopes

### Professional Audio
- Video Editing Stations
- Keyboards
- Sound Processors
- Mixing Consoles

### Medical*
- Scanners
- Medical Sensors
- Communication Equipment
- Temperature and Respiratory Monitors
- Power Supplies
- Blood Chemical Analyzers
- Medical Diagnostic Equipment

### Bourns® Trimpot® Sealed SMD Cermet Trimming Potentiometers

<table>
<thead>
<tr>
<th>Type</th>
<th>Rotation</th>
<th>Number of Turns</th>
<th>Power Rating</th>
<th>Resistance Range</th>
<th>Temp. Coefficient</th>
<th>Range Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>3214</td>
<td>Rotational</td>
<td>5</td>
<td>3.32 watts</td>
<td>10 ohms to 2 megohms</td>
<td>±10%</td>
<td>Available in side-adjust options; video-cordible version available; RoHS compliant*</td>
</tr>
<tr>
<td>3223</td>
<td>Rotational</td>
<td>15</td>
<td>10 watts</td>
<td>10 ohms to 2 megohms</td>
<td>±10%</td>
<td>Available in side-adjust options; SMD variants available; RoHS compliant*</td>
</tr>
<tr>
<td>3244</td>
<td>Rotational</td>
<td>12</td>
<td>2.5 watts</td>
<td>10 ohms to 2 megohms</td>
<td>±10%</td>
<td>Available in side-adjust options; video-cordible version available; RoHS compliant*</td>
</tr>
<tr>
<td>3269</td>
<td>Rotational</td>
<td>12</td>
<td>2.5 watts</td>
<td>10 ohms to 2 megohms</td>
<td>±10%</td>
<td>Available in side-adjust options; video-cordible version available; RoHS compliant*</td>
</tr>
<tr>
<td>3312</td>
<td>Linear</td>
<td>1</td>
<td>5 watts</td>
<td>10 ohms to 1 megohms</td>
<td>±10%</td>
<td>Available in side-adjust options; RoHS compliant*</td>
</tr>
<tr>
<td>3313</td>
<td>Linear</td>
<td>1</td>
<td>5 watts</td>
<td>10 ohms to 1 megohms</td>
<td>±10%</td>
<td>Available in side-adjust options; RoHS compliant*</td>
</tr>
</tbody>
</table>


**Bourns® product have various designated flame retardant ratings for use in various “ultra-critical” or “life-saving” applications. For any specific application, contact Bourns® or consult local Bourns® representative. Bourns® products may not be used in personal hygiene or medical. See legal disclaimer notice at: http://www.bourns.com/docs/legal/disclaimer.pdf.**
### Applications by Market

<table>
<thead>
<tr>
<th>Market</th>
<th>Industrial</th>
<th>Communication</th>
<th>Instrumentation</th>
<th>Professional Audio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace &amp; Military</td>
<td>SET-TO-BOXES, PORTABLE/HANDHELD RADIOS, SATELLITE SYSTEMS, BASE STATIONS, POWER SUPPLIES</td>
<td>COMMUNICATIONS, LASER ALTIMETERS, AVIONICS, RADAR SYSTEMS, CONTROL SYSTEMS, MILITARY RADIOS</td>
<td>DATA COMMUNICATIONS, BAR CODE SCANNERS, RFID SYSTEMS, INDUSTRIAL/GRAPHIC PRINTERS, SMOKE DETECTORS</td>
<td>MEDICAL* (DIAGNOSTIC- AND HOSPITAL-SYSTEMS, SPARE SYSTEMS)</td>
</tr>
<tr>
<td>Medical*</td>
<td>SCANNERS, MEDICAL MACHINES, COMMUNICATION EQUIPMENT, TEMPERATURE AND RESPIRATORY MONITORS, POWER SUPPLIES, BLOOD CHEMICAL ANALYZERS, MEDICAL DIAGNOSTIC EQUIPMENT</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Bourns® Trimpot® Sealed SMD Cermet Trimming Potentiometers

**3214**

- **Bourns® Trimpot®**
- **Sealed SMD Cermet Trimming Potentiometers**
- **Number of Turns**: 10
- **Power Rating**: 1.25 watts
- **Tolerance**: ±10%
- **Coefficient**: 200 cycles to 0.25 watts to 10 ohms

**Features**

- **Range**: ±100 ppm/°C
- **Coefficient**: ±50 ppm.
- **Temp**: -40°C to +150°C

- **Available in top and side adjust options**: available in 6 mm square.
- **Sealed to IP67**
- **Available in low ohmic resistance values**: available in 10 ohms to 1 megohm.
- **RoHS compliant**: available in 100 cycles.
- **Wave solderable version available**: available in 100 cycles.

**3223**

- **Bourns® Trimpot®**
- **Sealed SMD Cermet Trimming Potentiometers**
- **Number of Turns**: 15
- **Power Rating**: 0.5 watts
- **Tolerance**: ±10%
- **Coefficient**: 200 cycles to 0.5 watts to 10 ohms

**Features**

- **Range**: ±100 ppm/°C
- **Coefficient**: ±50 ppm.
- **Temp**: -40°C to +150°C

- **Available in top and side adjust options**: available in 2 mm square.
- **Sealed to IP67**
- **Available in low ohmic resistance values**: available in 10 ohms to 1 megohm.
- **RoHS compliant**: available in 10 cycles.
- **Wave solderable version available**: available in 10 cycles.

**3224**

- **Bourns® Trimpot®**
- **Sealed SMD Cermet Trimming Potentiometers**
- **Number of Turns**: 12
- **Power Rating**: 0.5 watts
- **Tolerance**: ±10%
- **Coefficient**: 200 cycles to 0.25 watts to 10 ohms

**Features**

- **Range**: ±100 ppm/°C
- **Coefficient**: ±50 ppm.
- **Temp**: -40°C to +150°C

- **Available in top and side adjust options**: available in 2 mm square.
- **Sealed to IP67**
- **Available in low ohmic resistance values**: available in 10 ohms to 1 megohm.
- **RoHS compliant**: available in 10 cycles.
- **Wave solderable version available**: available in 10 cycles.

**3269**

- **Bourns® Trimpot®**
- **Sealed SMD Cermet Trimming Potentiometers**
- **Number of Turns**: 12
- **Power Rating**: 0.5 watts
- **Tolerance**: ±10%
- **Coefficient**: 200 cycles to 0.25 watts to 10 ohms

**Features**

- **Range**: ±100 ppm/°C
- **Coefficient**: ±50 ppm.
- **Temp**: -40°C to +150°C

- **Available in top and side adjust options**: available in 10 ohms to 1 megohm.
- **Sealed to IP67**
- **Available in low ohmic resistance values**: available in 10 ohms to 1 megohm.
- **RoHS compliant**: available in 10 cycles.
- **Wave solderable version available**: available in 10 cycles.

**3312**

- **Bourns® Trimpot®**
- **Sealed SMD Cermet Trimming Potentiometers**
- **Number of Turns**: 10
- **Power Rating**: 0.5 watts
- **Tolerance**: ±10%
- **Coefficient**: 200 cycles to 0.25 watts to 10 ohms

**Features**

- **Range**: ±100 ppm/°C
- **Coefficient**: ±50 ppm.
- **Temp**: -40°C to +150°C

- **Available in top and side adjust options**: available in 4 mm square.
- **Sealed to IP67**
- **Available in low ohmic resistance values**: available in 10 ohms to 1 megohm.
- **RoHS compliant**: available in 10 cycles.

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**Notes:**

- “Bourns” products have been designed for use in general standards and may be used for “Military,” “Industrial,” or “Military” applications not requiring military standards to be met. See “Altitude Disclaimers” for detailed information.
- “RoHS compliant” refers to products that meet the requirements of the Restriction of Hazardous Substances Directive (RoHS).
- “Sealed to IP67” indicates the product is protected against water and dust.
- “Available in low ohmic resistance values” indicates the product is available in low ohmic resistance values, typically 10 ohms to 1 megohm.
- “RoHS compliant” refers to products that meet the requirements of the Restriction of Hazardous Substances Directive (RoHS).
- “Wave solderable version available” indicates the product is available in a wave solderable version.
- “Available in top and side adjust options” indicates the product is available in top and side adjust options.
## Worldwide Sales Offices

<table>
<thead>
<tr>
<th>Country/Region</th>
<th>Phone</th>
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<tbody>
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<tr>
<td>Taiwan</td>
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<tr>
<td>Other Asia-Pacific Countries</td>
<td>+886 2 2562 4117</td>
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## Technical Assistance

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### Bourns® Trimpot® Sealed SMD Cermet Trimming Potentiometers

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Trimpot® products are available in RoHS compliant** versions and are manufactured in facilities that are ISO 9001 certified.

The Bourns Trimpot product line offers various special options to suit your particular application. Available options include extended shafts, custom wiper settings, and tighter total resistance tolerances.

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### Specifications

- **Model Number**: Various options for different applications.
- **Number of Turns**: Options for single and multiple turns.
- **Size**: Various size options for different applications.
- **Packaging Options**: Various packaging options for different applications.
- **Adjustment Options**: Various adjustment options for different applications.

---

**Note**: Trimpot® products are available through an extensive network of distributors. For information on Bourns® products, please contact a Bourns® representative in your area. Bourns® products are manufactured in facilities that are ISO 9001 certified.

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**Bourns® products are available through an extensive network of distributors.**

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**Bourns® products are available through an extensive network of distributors.**