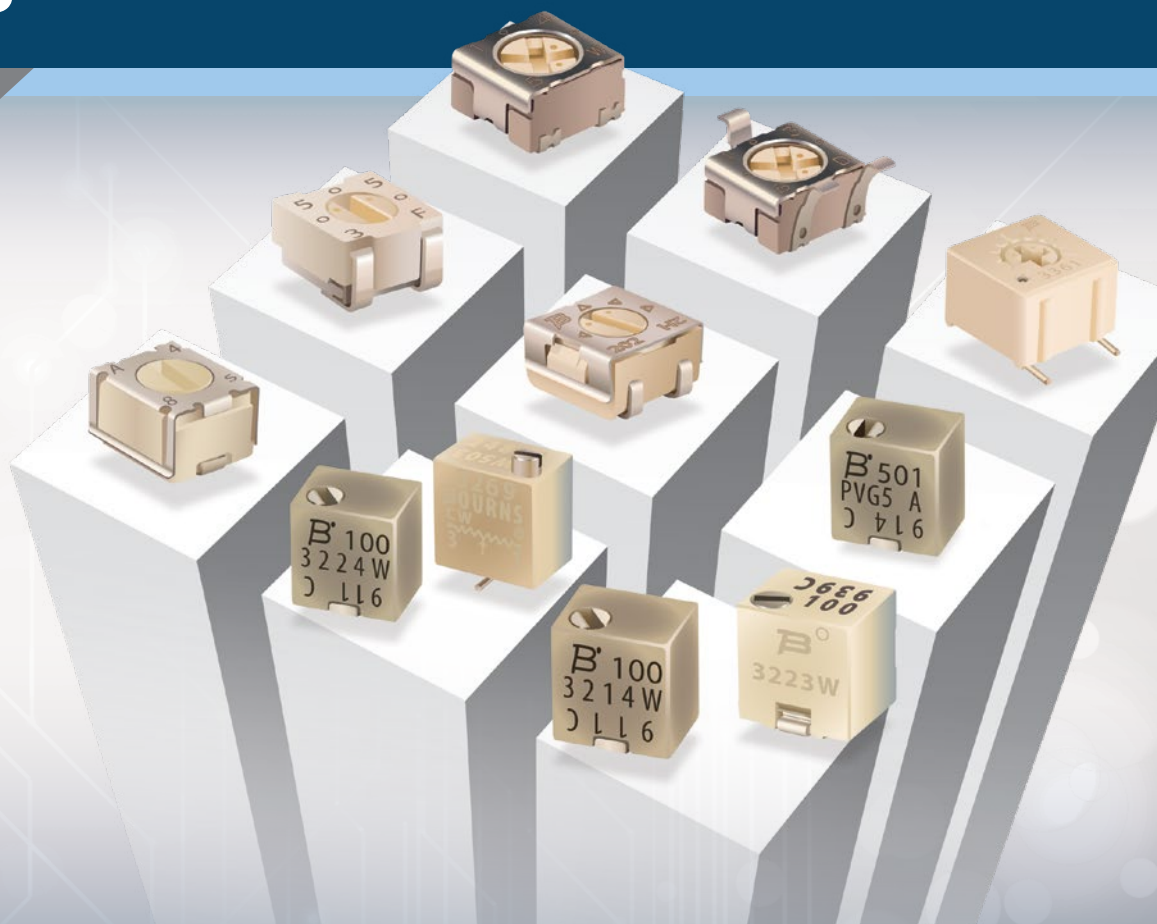




# Bourns® Trimpot® Sealed SMD Cermet Trimming Potentiometers



**BOURNS®**

# Applications by Market

## Aerospace & Military

- Military Radios
- Control Systems
- 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 Diode Drivers
- CCTV Cameras
- Automated Gates/Doors
- Fire Alarms
- Metal Detectors
- Fluid Measurements
- Smoke Detectors
- Industrial/Graphic Printers
- RFID Systems
- Proximity Sensors
- Bar Code Scanners

## Instrumentation

- Oscilloscopes
- Network Analyzers
- Calibration Equipment
- Radiation and X-ray Testers
- Laser Scanners
- Timers
- Counters
- Power Supplies

## Medical\*

(Low/medium risk)

- 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
- Instrument Amplifiers
- Keyboards
- Sound Recording Equipment
- Video Editing Stations

*\* Bourns® products have not been designed for and are not intended for use in "lifesaving," "life-critical" or "life-sustaining" applications nor any other applications where failure or malfunction of the Bourns® product may result in personal injury or death. See Legal Disclaimer Notice <http://www.bourns.com/docs/legal/disclaimer.pdf>.*

# 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 utilizing 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 mil-drawing qualified surface mount sealed trimmers. These 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 88039 (3314J), 88040 (3269), 90027 (3314G) and 92021 (3224).

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 IATF16949 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](http://www.bourns.com) for the most current Bourns authorized distributor listing to ensure a continual supply of genuine Bourns® products.


| Model Number | Number of Turns |       | Size |      |      |      | Packaging Options | Adjustment |
|--------------|-----------------|-------|------|------|------|------|-------------------|------------|
|              | Single          | Multi | 2 mm | 3 mm | 4 mm | 6 mm | See Note 1        | See Note 2 |
| 3214         |                 | x     |      |      | x    |      | R                 | T,S        |
| 3223         |                 | x     |      | x    |      |      | R                 | T,S        |
| 3224         |                 | x     |      |      | x    |      | R                 | T,S        |
| 3269         |                 | x     |      |      |      | x    | T,R               | T,S        |
| 3312         | x               |       | x    |      |      |      | R                 | T          |
| 3313         | x               |       |      | x    |      |      | R                 | T,S        |
| 3314         | x               |       |      |      | x    |      | T,R               | T,S        |
| 3361         | x               |       |      |      |      | x    | R                 | T,S        |
| PVG3         | x               |       |      | x    |      |      | R                 | T          |
| PVG5         |                 | x     |      |      | x    |      | R                 | T,S        |


Note 1: T = Tubes, B = Bulk, R = Tape and Reel


Note 2: T = Top Adjust, S = Side Adjust, R = Rear Adjust


\*RoHS Directive 2015/863, March 31, 2015 and Annex

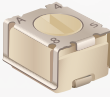
# Bourns® Trimpot® Sealed SMD Ce


| 3214  | Rotational Life | Number of Turns | Power Rating | Resistance Range     | Tolerance | Temp. Coefficient | Temp. Range       | Features  |
|---|-----------------|-----------------|--------------|----------------------|-----------|-------------------|-------------------|---|
|  | 200 cycles      | 5               | 0.25 watts   | 10 ohms to 2 megohms | ±10 %     | ±100 ppm/°C       | -65 °C to +150 °C | <ul style="list-style-type: none"> <li>• 4 mm square</li> <li>• Available in top and side adjust options</li> <li>• Sealed to IP67</li> <li>• Wave solderable version available</li> <li>• RoHS compliant*</li> </ul> |

| 3223  | Rotational Life | Number of Turns | Power Rating | Resistance Range     | Tolerance | Temp. Coefficient | Temp. Range       | Features   |
|---|-----------------|-----------------|--------------|----------------------|-----------|-------------------|-------------------|--|
|  | 200 cycles      | 11              | 0.125 watts  | 10 ohms to 2 megohms | ±20 %     | ±100 ppm/°C       | -65 °C to +150 °C | <ul style="list-style-type: none"> <li>• 3 mm square</li> <li>• Available in top and side adjust options</li> <li>• Sealed to IP67</li> <li>• RoHS compliant*</li> </ul> |


| 3224  | Rotational Life | Number of Turns | Power Rating | Resistance Range     | Tolerance | Temp. Coefficient | Temp. Range       | Features  |
|---|-----------------|-----------------|--------------|----------------------|-----------|-------------------|-------------------|---|
|  | 200 cycles      | 12              | 0.25 watts   | 10 ohms to 2 megohms | ±10 %     | ±100 ppm/°C       | -65 °C to +150 °C | <ul style="list-style-type: none"> <li>• 4 mm square</li> <li>• Available in top and side adjust options</li> <li>• Sealed to IP67</li> <li>• Wave solderable version available</li> <li>• RoHS compliant*</li> </ul> |


| 3269  | Rotational Life | Number of Turns | Power Rating | Resistance Range    | Tolerance | Temp. Coefficient | Temp. Range       | Features   |
|---|-----------------|-----------------|--------------|---------------------|-----------|-------------------|-------------------|--|
|  | 200 cycles      | 12              | 0.25 watts   | 10 ohms to 1 megohm | ±10 %     | ±100 ppm/°C       | -65 °C to +150 °C | <ul style="list-style-type: none"> <li>• 6 mm square</li> <li>• Available in top and side adjust options</li> <li>• Sealed to IP67</li> <li>• RoHS compliant*</li> </ul> |

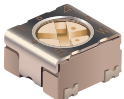
| 3312  | Rotational Life | Number of Turns | Power Rating | Resistance Range    | Tolerance | Temp. Coefficient | Temp. Range       | Features   |
|---|-----------------|-----------------|--------------|---------------------|-----------|-------------------|-------------------|--|
|  | 25 cycles       | 1               | 0.1 watts    | 10 ohms to 1 megohm | ±20 %     | ±100 ppm/°C       | -55 °C to +125 °C | <ul style="list-style-type: none"> <li>• 2 mm square</li> <li>• Sealed to IP67</li> <li>• Available in low ohmic resistance values</li> <li>• RoHS compliant*</li> </ul> |


| 3313  | Rotational Life | Number of Turns | Power Rating | Resistance Range    | Tolerance | Temp. Coefficient | Temp. Range       | Features  |
|---|-----------------|-----------------|--------------|---------------------|-----------|-------------------|-------------------|---|
|  | 100 cycles      | 1               | 0.125 watts  | 10 ohms to 1 megohm | ±20 %     | ±100 ppm/°C       | -55 °C to +125 °C | <ul style="list-style-type: none"> <li>• 3 mm square</li> <li>• Available in top and side adjust options</li> <li>• Sealed to IP67</li> <li>• Plastic housing for RF applications</li> <li>• RoHS compliant*</li> </ul> |

# Trimmet Trimming Potentiometers

| 3314  | Rotational Life | Number of Turns | Power Rating | Resistance Range    | Tolerance | Temp. Coefficient | Temp. Range       | Features   |
|---|-----------------|-----------------|--------------|---------------------|-----------|-------------------|-------------------|--|
|  | 100 cycles      | 1               | 0.25 watts   | 10 ohms to 1 megohm | ±20 %     | ±100 ppm/°C       | -55 °C to +125 °C | <ul style="list-style-type: none"> <li>• 4 mm square</li> <li>• Available in top and side adjust options</li> <li>• Sealed to IP67</li> <li>• RoHS compliant*</li> </ul> |

| 3361  | Rotational Life | Number of Turns | Power Rating | Resistance Range     | Tolerance | Temp. Coefficient | Temp. Range       | Features   |
|---|-----------------|-----------------|--------------|----------------------|-----------|-------------------|-------------------|--|
|  | 200 cycles      | 1               | 0.5 watts    | 10 ohms to 2 megohms | ±10 %     | ±100 ppm/°C       | -55 °C to +125 °C | <ul style="list-style-type: none"> <li>• 6 mm square</li> <li>• Available in top and side adjust options</li> <li>• Sealed to IP67</li> <li>• RoHS compliant*</li> </ul> |

| PVG3  | Rotational Life | Number of Turns | Power Rating | Resistance Range     | Tolerance | Temp. Coefficient | Temp. Range       | Features   |
|---|-----------------|-----------------|--------------|----------------------|-----------|-------------------|-------------------|--|
|  | 50 cycles       | 1               | 0.25 watts   | 10 ohms to 2 megohms | ±20 %     | ±150 ppm/°C       | -55 °C to +125 °C | <ul style="list-style-type: none"> <li>• 3 mm square</li> <li>• Available in J-hook &amp; gull-wing pin styles</li> <li>• Sealed to IP67</li> <li>• RoHS compliant*</li> </ul> |

| PVG5  | Rotational Life | Number of Turns | Power Rating | Resistance Range     | Tolerance | Temp. Coefficient | Temp. Range       | Features   |
|---|-----------------|-----------------|--------------|----------------------|-----------|-------------------|-------------------|--|
|  | 200 cycles      | 12              | 0.25 watts   | 10 ohms to 2 megohms | ±10 %     | ±150 ppm/°C       | -55 °C to +125 °C | <ul style="list-style-type: none"> <li>• 4 mm square</li> <li>• Available in top and side adjust options</li> <li>• Sealed to IP67</li> <li>• RoHS compliant*</li> </ul> |

# Worldwide Sales Offices

## Worldwide Sales/Representative Offices

| Country/Region                | Phone            | Email               |
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| China:                        | +86 21 64821250  | asiacus@bourns.com  |
| Europe, Middle East, Africa:  | +36 88 885 877   | eurocus@bourns.com  |
| Japan:                        | +81 49 269 3204  | asiacus@bourns.com  |
| Korea:                        | +82 70 4036 7730 | asiacus@bourns.com  |
| Singapore:                    | +65 6348 7227    | asiacus@bourns.com  |
| Taiwan:                       | +886 2 25624117  | asiacus@bourns.com  |
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| Europe, Middle East, Africa: | +36 88 885 877  | eurotech@bourns.com |
| Americas:                    | +1-951-781-5500 | techweb@bourns.com  |

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