Aerospace & Military
- Avionics
- Control Systems
- Laser Altimeters
- Military Radars
- Radar Systems
- Transmission Equipment

Communications
- Power Supplies
- Base Stations
- GPS Navigation
- Portable/Handheld Devices
- Satellite Systems
- Seat-Top Boxes

Industrial
- 3D Printers
- Automation Equipment
- Automated Gates/Doors
- Barcode Scanners
- CCTV Cameras
- Fire Alarms

Industrial (Continued)
- Industrial-Graphic Printers
- Laser Drive Systems
- Metal Detectors
- Power Supplies
- Proximity Sensors
- Radio
- RFID Systems
- Sensors
- Smoke Detectors

Professional Audio
- Electric Guitars
- Instrument Amplifiers
- Keyboards
- Mixing Consol
- Sound Processors
- Sound Recording Equipment
- Video Editing Stations

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

Worldwide Sales Offices

Bourns® Sealed Through-Hole Cermet Trimming Potentiometers

Applications by Market

Country/Region | Phone | Email
---|---|---
Americas | +1-951-781-5500 | americus@bourns.com
Brazil | +55 11 5505 0601 | americus@bourns.com
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
Other Asia-Pacific Countries | +886 2 25624117 | asiacus@bourns.com

Technical Assistance Region | Phone | Email
Asia-Pacific | +886 2 25624117 | techweb@bourns.com
Europe, Middle East, Africa | +36 88 885 877 | eurotech@bourns.com
Americas | +1-951-781-5500 | techweb@bourns.com

*“Bourns” products have been designated for and are not intended for use in “life-critical” or “life-sustaining” applications or any other applications where failure or malfunction of the Bourns® product may result in personal injury or death. For product use outside designated applications, please contact a Bourns® sales engineer.

Bourns products are available through many distributors worldwide. To locate a sales or technical representative, call your local Bourns® sales office or distributor. All specifications subject to change without notice. Bourns reserves the right to make changes in design, materials and specifications of any Bourns® product at any time. Bourns makes no warranty, expressed or implied, regarding non-infringement of rights of others or merchantability or fitness for any purpose. Bourns assumes no responsibility for any infringement of patents or other rights of third parties by use of this product. Bourns does not authorize or warrant any Bourns product for use in safety-critical applications or products if a failure of the Bourns product may result in personal injury or death.
Applications by Market

**Aerospace & Military**
- Avionics
- Control Systems
- Laser Altimeters
- Military Radios
- Radar Systems
- Transmission Equipment

**Communications**
- Power Supplies
- Base Stations
- GPS Navigation
- Portable/Handheld Devices
- Satellite Systems
- Small-Trip Boxes

**Industrial**
- 3D Printers
- Automation Equipment
- Automated Gates/Doors
- Barcode Scanners
- CCTV Cameras
- Fire Alarms

**Professional Audio**
- Electric Guitars
- Instrument Amplifiers
- Keyboards
- Mixing Consoloids
- Sound Processors
- Sound Recording Equipment
- Video Editing Stations

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

**Worldwide Sales Offices**

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**Technical Assistance**

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</table>

**Bourns® Sealed Through-Hole Cermet Trimming Potentiometers**

Bourns® products are available through an extensive network of manufacturer’s representatives, agents, and distributors. The electronic products and components herein, expiration and beyond makes no representations or warranties, express or implied, to the accuracy, performance, merchantability, suitability, or any other aspect, except as herein specifically stated. Buyer must verify the suitability for the intended application. Buyer assumes all risk of injury or damage in the use of these products. Buyer agrees to indemnify, hold harmless, and defend Bourns® from any claims, damages, or expenses arising from Buyer's use of these products.

For more information, visit www.bourns.com

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Introduction

Bourns® Trimpot® Potentiometer Product Line offers the widest array of Through-Hole sealed trimming potentiometers in the industry and has continued to expand with four new trimmers acquired from Murata PV trimmer potentiometer product line. The Bourns® Trimpot® Potentiometer Product Line was developed using all of Bourns’ core competencies; ceramic, thick-film printing, welding and testing to offer the most reliable electronic products. Bourns® is one of the broadest offering of QPL manufacturing high-reliability (RJR, MIL-PRF-39035) military trimmers, along with the broadest offering of QPL OQI Approved (RJ, MIL-PRF-22097) military trimmers.

Bourns® Trimpot® Potentiometer products are available in RoHS compliant* versions. All of our manufacturing facilities are ISO-9001 and ISO-14001 certified. Bourns® Trimpot® Potentiometer products are manufactured in IATF16949 certified facilities.

Visit our website, www.bourns.com, for the most up-to-date specifications. Purchase through Bourns® authorized distribution to ensure a continual supply of genuine Bourns® products.

Bourns® Sealed Through-Hole Cermet Trimming Potentiometers

<table>
<thead>
<tr>
<th>Model</th>
<th>Resistor Tolerance</th>
<th>Power</th>
<th>Life</th>
<th>Temp. Coefficient</th>
<th>Temp. Range</th>
<th>Features</th>
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<td>±100 ppm/˚C</td>
<td>10 Ohms to 1 Megohm</td>
<td>3296 Rotational Life</td>
<td>+55 ˚C to +125 ˚C</td>
<td>±10 %</td>
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<td>±10 %</td>
<td>RoHS compliant*</td>
</tr>
</tbody>
</table>
Bourns® Sealed Through-Hole Cermet Trimming Potentiometers

- ±100 ppm/˚C
- ±10%

Features

-65 ˚C to T
-55 ˚C to 12 mm (1/2 “)
-65 ˚C to T
-75 ˚C to 31 mm (1-1/4 “)
-10 Ohms to ±10 %
-±100 ppm/˚C
-0.5 Watts

See Note 1

T, S
0.5 Watts

Features

-65 ˚C to T
-55 ˚C to CCW
-65 ˚C to T
-3059 Y

Features

3059 Rotational Life
Number of Turns
Power Rating
Resistance Range
Resistance Tolerance
Temp. Range
Features
200 cycles 10 4.7MΩ ±100 ppm/˚C ±10% ±100 ppm/˚C @ 70 °C 200 cycles 0.5 Watts 0.25 Watts ±10% • Top and side adjust styles • Standoffs allow thorough • Mounting hardware available • Available with plastic spacer • RoHS compliant* • Multiturn in a single-turn packages available (cols. 1 & 4 only)

3262 Rotational Life
Number of Turns
Power Rating
Resistance Range
Resistance Tolerance
Temp. Range
Features
200 cycles 10 4.7MΩ ±100 ppm/˚C ±10% ±100 ppm/˚C @ 70 °C 200 cycles 0.5 Watts 0.25 Watts ±10% • Top and side adjust styles • Standoffs allow thorough • Mounting hardware available • Available with plastic spacer • RoHS compliant* • Multiturn in a single-turn packages available (cols. 1 & 4 only)

3266 Rotational Life
Number of Turns
Power Rating
Resistance Range
Resistance Tolerance
Temp. Range
Features
200 cycles 10 4.7MΩ ±100 ppm/˚C ±10% ±100 ppm/˚C @ 70 °C 200 cycles 0.5 Watts 0.25 Watts ±10% • Top and side adjust styles • Standoffs allow thorough • Mounting hardware available • Available with plastic spacer • RoHS compliant* • Multiturn in a single-turn packages available (cols. 1 & 4 only)

3292 Rotational Life
Number of Turns
Power Rating
Resistance Range
Resistance Tolerance
Temp. Range
Features
200 cycles 10 4.7MΩ ±100 ppm/˚C ±10% ±100 ppm/˚C @ 70 °C 200 cycles 0.5 Watts 0.25 Watts ±10% • Top and side adjust styles • Standoffs allow thorough • Mounting hardware available • Available with plastic spacer • RoHS compliant* • Multiturn in a single-turn packages available (cols. 1 & 4 only)

3296 Rotational Life
Number of Turns
Power Rating
Resistance Range
Resistance Tolerance
Temp. Range
Features
200 cycles 10 4.7MΩ ±100 ppm/˚C ±10% ±100 ppm/˚C @ 70 °C 200 cycles 0.5 Watts 0.25 Watts ±10% • Top and side adjust styles • Standoffs allow thorough • Mounting hardware available • Available with plastic spacer • RoHS compliant* • Multiturn in a single-turn packages available (cols. 1 & 4 only)

3314H Rotational Life
Number of Turns
Power Rating
Resistance Range
Resistance Tolerance
Temp. Range
Features
200 cycles 10 4.7MΩ ±100 ppm/˚C ±10% ±100 ppm/˚C @ 70 °C 200 cycles 0.5 Watts 0.25 Watts ±10% • Top and side adjust styles • Standoffs allow thorough • Mounting hardware available • Available with plastic spacer • RoHS compliant* • Multiturn in a single-turn packages available (cols. 1 & 4 only)

3310H Rotational Life
Number of Turns
Power Rating
Resistance Range
Resistance Tolerance
Temp. Range
Features
200 cycles 10 4.7MΩ ±100 ppm/˚C ±10% ±100 ppm/˚C @ 70 °C 200 cycles 0.5 Watts 0.25 Watts ±10% • Top and side adjust styles • Standoffs allow thorough • Mounting hardware available • Available with plastic spacer • RoHS compliant* • Multiturn in a single-turn packages available (cols. 1 & 4 only)

3316 Rotational Life
Number of Turns
Power Rating
Resistance Range
Resistance Tolerance
Temp. Range
Features
200 cycles 10 4.7MΩ ±100 ppm/˚C ±10% ±100 ppm/˚C @ 70 °C 200 cycles 0.5 Watts 0.25 Watts ±10% • Top and side adjust styles • Standoffs allow thorough • Mounting hardware available • Available with plastic spacer • RoHS compliant* • Multiturn in a single-turn packages available (cols. 1 & 4 only)

3329 Rotational Life
Number of Turns
Power Rating
Resistance Range
Resistance Tolerance
Temp. Range
Features
200 cycles 1 8.2KΩ ±100 ppm/˚C ±10% ±100 ppm/˚C @ 70 °C 200 cycles 0.5 Watts 0.25 Watts ±10% • Top and side adjust styles • Standoffs allow thorough • Mounting hardware available • Available with plastic spacer • RoHS compliant* • Multiturn in a single-turn packages available (cols. 1 & 4 only)
Bourns® Trimpot® Potentiometer Product Line offers a wide range of Through-Hole Trimming Potentiometers in the industry and has continued to expand with five new trimmers acquired from Murata TV trimming potentiometer product line. The Bourns Trimpot® Potentiometer Product Line was developed using all of Bourns’ core competencies: ceramics, thick-film printing, welding and bonding to offer the most reliable electronic products. Bourns is the QPL company in the United States for National (MIL-PRF-22097/22068/21058) military trimmers, along with the broadest offering of QPL Approved (RJ, MIL-PRF-22097) military trimmers.

Bourns® Trimpot® Potentiometer products are available in RoHS compliant* versions. All of our manufacturing facilities are ISO 9001 and ISO 14001 certified.

The Bourns Trimpot® Potentiometer Product Line offers various special options for your specific applications. Product is available in extended and shortened terminals, shaft extensions, long-life miniature elements, larger total resistance tolerances, audio tapers and hardware-mounted. The Bourns Trimpot® Potentiometer line is the QPL for RJ50 per MIL-PRF-22097, listed on the QPL for RJ12 per MIL-PRF-39035 (A & B pin styles only), and listed on the QPL for RJ24 per MIL-PRF-22097 (L pin style only).

Visit our website, www.bourns.com, for the most up-to-date specifications. Purchase through Bourns® authorized distributors to ensure a continual supply of genuine Bourns® products.

Introduction

Bourns® Sealed Through-Hole Cermet Trimming Potentiometers

### Specifications

**Model**

<table>
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<tr>
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<td>3096</td>
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<td>100 mW</td>
<td>10 Ohms to 1 Megohm</td>
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*RoHS compliant: compliant with RoHS directive 2002/95/EC, as of 27 January 2003 including Annex VI and RoHS 2011/65/EU, Article 4, 2011*
Applications by Market

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- Avionics
- Control Systems
- Laser Altimeters
- Military Radars
- Radar Systems
- Transmission Equipment

Communications
- Power Supplies
- Base Stations
- GPS Navigation
- Portable/Handheld Devices
- Satellite Systems
- SAT-TR-50S

Industrial
- 3D Printers
- Automation Equipment
- Automated Gates/Doors
- Barcode Scanners
- CCTV Cameras
- Fire Alarms

Professional Audio
- Electric Guitars
- Instrument Amplifiers
- Keyboards
- Mixing Consoloes
- Sound Processors
- Sound Recording Equipment
- Video Editing Stations

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

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

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