

# Bourns® Consumer Trimming Potentiometers

*Short Form Brochure*



# Introduction

## BOURNS® CONSUMER TRIMPOT® TRIMMING POTENTIOMETERS

Bourns® Trimpot Product Line is pleased to present our latest Consumer Trimming Potentiometer Short Form Brochure. Traditionally a manufacturer of high-end and military grade trimming potentiometers, Bourns continues to expand our product offering to include trimmers to meet the demands of the growing consumer electronics market.

Bourns offers consumer trimmers in open-frame surface mount and through-hole mounting styles.

A number of models are included. Please see the Selection Guide on the next page for a listing of important features and benefits for each open-frame trimming potentiometer.

## HOW TO ORDER

TC33 X - 1 - 502 E	
<b>Model Designator</b>	
3306 = 6 mm Through-Hole Cermet	
3309 = 9 mm Through-Hole Cermet	
3319 = 9 mm Through-Hole Carbon	
3352 = 9 mm Through-Hole Cermet	
TC33 = 3 mm SMD Cermet	
TC42 = 2 mm SMD Cermet	
<b>Style</b>	
<i>Note: View the model's datasheet for specific pin styles</i>	
<b>Standard Product Indicator</b>	
1 = Standard	
<i>Note: View the model's datasheet for standard product indicator</i>	
<b>Resistance Code</b>	
<i>Note: View the model's datasheet for resistance codes</i>	
<b>Embossed Tape Designator</b>	
<i>Note: Not available on models 3306, 3309, 3319, &amp; 3352</i>	

# Consumer Applications

## Appliances

- Air conditioners
- Bread makers
- Coffee/tea makers
- Controls for white goods
- Dental hygiene devices
- Dishwashers
- Door chimes, electronic
- Door opening systems
- Food processors
- Freezers
- Kitchen appliances
- Microwave ovens
- Refrigerators
- Stoves/ovens

## Audio

- Amplifiers
- Music centers
- Music mixing equipment
- Organs and musical instruments
- Portable stereos
- Radios
- Receivers
- Stereo systems
- Turn table combo systems

## Automotive

- Auto repair instruments
- Car stereos

## Communications

- Amateur radios
- Cordless telephones
- Handhelds
- Telephones
- Telephone amplifiers
- Telephone answering machines
- Telephone sets, digital

## Computers

- Computers
- Computer monitors
- Computer power supplies
- Home networks
- Laptops
- Laser Printers
- Personal computers
- Photo printers
- Printers

## Consumer Electronics

- Clocks
- Clock radios
- Digital table clocks
- Educational toys
- E-cigarettes
- Electronic games
- Entertainment Systems
- Game units
- Metal detectors
- Power tools
- Radio controls for models
- Toys & kits, electronics
- Video game systems

## Environmental Controls & Equipment


- Carbon monoxide detectors
- Electronic insect repellants
- Intercom systems
- Smoke detectors
- Thermostatic controls
- Trash compactors
- Ultrasonic devices


## Video


- Digital cameras
- Digital TVs
- DVD players
- DVD recorders
- HDTVs
- LCD modules
- Optical transceivers
- Satellite receivers
- Sensors
- Set-top boxes
- Televisions
- TV receivers




# Bourns® Consumer Trimpot® Trimming Potentiometers


3306	Mechanical Life	Electrical Adjustment	Power Rating	Mounting Type	Resistance Range	Tolerance	CRV	Temp. Coefficient	Frame	Features
	25 cycles	1	0.2 Watts	Through-hole	100 ohms to 2 megohms	±25 %	3 % max.	±250 ppm/°C	Open frame	<ul style="list-style-type: none"> <li>• Single-turn</li> <li>• Cross slot rotor</li> <li>• Horizontal and vertical adjust styles</li> <li>• Dust resistant cover</li> <li>• PC board stand-offs and retention features</li> <li>• RoHS Compliant*</li> </ul>


3309	Mechanical Life	Electrical Adjustment	Power Rating	Mounting Type	Resistance Range	Tolerance	CRV	Temp. Coefficient	Frame	Features
	25 cycles	1	0.5 Watts	Through-hole	100 ohms to 2 megohms	±25 %	3 % max.	±250 ppm/°C	Open frame	<ul style="list-style-type: none"> <li>• Single-turn</li> <li>• Cross slot rotor</li> <li>• Horizontal and vertical adjust styles</li> <li>• Dust resistant cover</li> <li>• PC board stand-offs and retention features</li> <li>• Top and side adjust</li> <li>• RoHS Compliant*</li> </ul>

3319	Mechanical Life	Electrical Adjustment	Power Rating	Mounting Type	Resistance Range	Tolerance	CRV	Temp. Coefficient	Frame	Features
	25 cycles	1	0.2 Watts	Through-hole	100 ohms to 1 megohm	±25 %	3 % max.	±1000 ppm/°C	Open frame	<ul style="list-style-type: none"> <li>• Single-turn</li> <li>• Cross slot rotor</li> <li>• Carbon resistance element</li> <li>• Horizontal and vertical adjust styles</li> <li>• Dust resistant cover</li> <li>• PC board stand-offs and retention features</li> <li>• Top and side adjust</li> <li>• RoHS Compliant*</li> </ul>



3352	Mechanical Life	Electrical Adjustment	Power Rating	Mounting Type	Resistance Range	Tolerance	CRV	Temp. Coefficient	Frame	Features
	100 cycles	1	0.5 Watts @ 85 °C	Through-hole	10 ohms to 2 megohms	±20 %	1 % or 1 ohm Whatever is greater	±100 ppm/°C @ 2K & up ±150 ppm/°C below 2K	Open frame	<ul style="list-style-type: none"> <li>• Single-turn</li> <li>• Cross slot rotor</li> <li>• Continuous rotation</li> <li>• Finger adjust</li> <li>• Dust resistant cover</li> <li>• 7 different pin styles available</li> <li>• Low profile</li> <li>• RoHS Compliant*</li> </ul>

TC33	Mechanical Life	Electrical Adjustment	Power Rating	Mounting Type	Resistance Range	Tolerance	CRV	Temp. Coefficient	Frame	Features
	20 cycles	1	0.1 Watts @ 70 °C	Surface mount	100 ohms to 1 megohm	±25 %	5 % max.	±250 ppm/°C	Open frame	<ul style="list-style-type: none"> <li>• Single-turn</li> <li>• Cross slot rotor</li> <li>• Rotational stop</li> <li>• Recommended for reflow soldering</li> <li>• Compatible with automatic assembly equipment</li> <li>• 3 mm size meets EIA/EIAJ standard trimmer footprint</li> <li>• RoHS Compliant*</li> </ul>

TC42	Mechanical Life	Electrical Adjustment	Power Rating	Mounting Type	Resistance Range	Tolerance	CRV	Temp. Coefficient	Frame	Features
	20 cycles	1	0.1 Watts @ 70 °C	Surface mount	100 ohms to 1 megohm	±25 %	5 % max.	±250 ppm/°C	Open frame	<ul style="list-style-type: none"> <li>• Single-turn</li> <li>• Cross slot rotor</li> <li>• Compatible with automatic assembly equipment</li> <li>• 2 mm size meets EIA/EIAJ standard trimmer footprint</li> <li>• RoHS Compliant*</li> </ul>

\* RoHS Directive 2002/95/EC Jan 27 2003 including Annex and RoHS Recast 2011/65/EU June 8, 2011



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Bourns® products are available through an extensive network of manufacturer's 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.

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