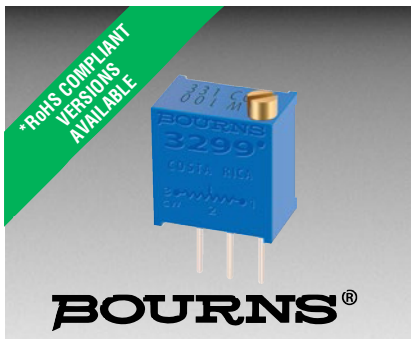




THE DATASHEET OF
3299X-1-502LF





Features

- 3/8" Square/ Multiturn / Cermet / Industrial / Sealed
- Five popular terminal styles
- Standoffs
- RoHS compliant* version available
- For trimmer applications/processing guidelines, [click here](#)

3299 - 3/8" Square Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range 10 to 2 megohms
 (see standard resistance table)
 Resistance Tolerance ±10 % std.
 (tighter tolerance available)
 Absolute Minimum Resistance
 1 % or 2 ohms max.
 (whichever is greater)
 Contact Resistance Variation
 1.0 % or 3 ohms max.
 (whichever is greater)
 Adjustability
 Voltage ±0.01 %
 Resistance ±0.05 %
 Resolution Infinite
 Insulation Resistance 500 vdc.
 1,000 megohms min.

Dielectric Strength

Sea Level..... 900 vac
 70,000 Feet..... 350 vac
 Effective Travel25 turns nom.

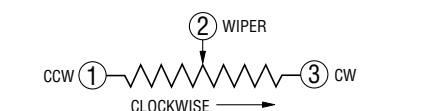
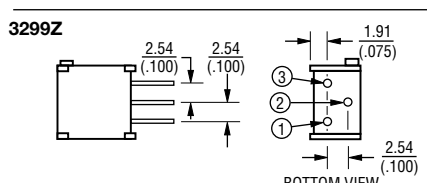
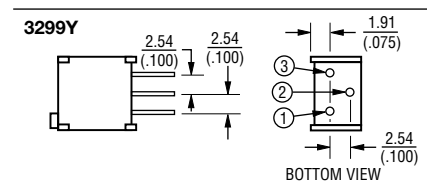
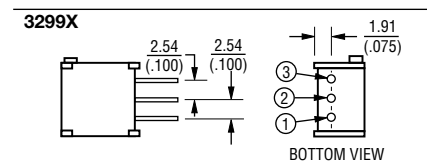
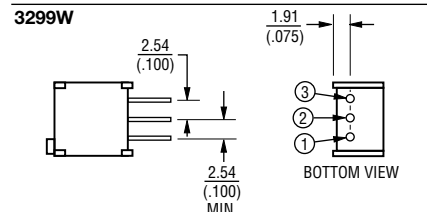
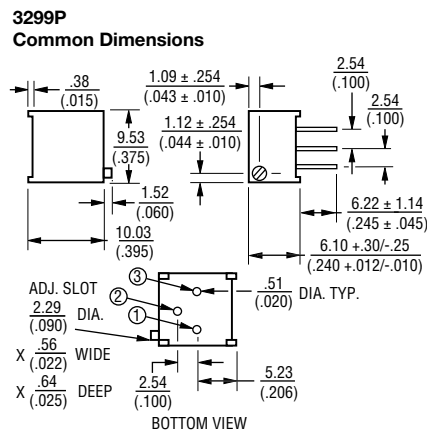
Environmental Characteristics

Power Rating (300 volts max.)
 70 °C 0.5 watt
 125 °C 0 watt
 Temperature Range ... -55 °C to +125 °C
 Temperature Coefficient ... ±100 ppm/°C
 Seal Test 85 °C Fluorinert†
 Humidity MIL-STD-202 Method 103
 96 hours
 (2 % ΔTR, 10 Megohms IR)
 Vibration 20 G (1 % ΔTR; 1 % ΔVR)
 Shock 100 G (1 % ΔTR; 1 % ΔVR)
 Load Life
 1,000 hours 0.5 watt @ 70 °C
 (3 % ΔTR; 3 % or 3 ohms,
 whichever is greater, CRV)
 Rotational Life 200 cycles
 (4 % ΔTR; 3 % or 3 ohms,
 whichever is greater, CRV)

Physical Characteristics

Torque..... 3.0 oz-in. max.
 Mechanical Stops..... Wiper idles
 Terminals Solderable pins
 Weight 0.035 oz.
 Marking..... Manufacturer's
 trademark, resistance code,
 wiring diagram, date code,
 manufacturer's model
 number and style
 Wiper 50 % (Actual TR) ±10 %
 Flammability U.L. 94V-0
 Standard Packaging 50 pcs. per tube
 Adjustment Tool..... H-90

Product Dimensions



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$
 TOLERANCES: ± $\frac{0.25}{(.010)}$ EXCEPT WHERE NOTED

Standard Resistance Table

Resistance (Ohms)	Resistance Code
10	100
20	200
50	500
100	101
200	201
500	501
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
25,000	253
50,000	503
100,000	104
200,000	204
250,000	254
500,000	504
1,000,000	105
2,000,000	205

Popular distribution resistance values listed in boldface. Special resistances available.

How To Order

Model **3299** W - 1 - 103 LF
 Style _____
 Standard or Modified _____
 Product Indicator _____
 -1 = Standard Product
 Resistance Code _____
 Terminations _____
 LF = 100 % Tin-plated (RoHS compliant)
 Blank = 90 % Tin / 10 % Lead-plated
 (Standard)

Consult factory for other available options.



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

REV. 11/16

"Trimpot" is a registered trademark of Bourns, Inc.
 †"Fluorinert" is a registered trademark of 3M Co.

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

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