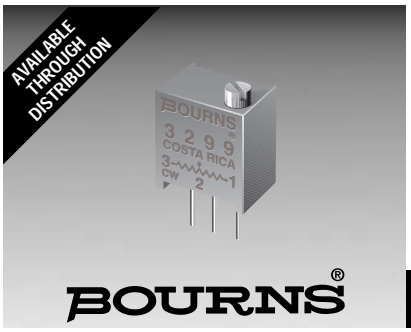


BOURNS®

Features

- 3/8" Square/ Multiturn / Cermet / Industrial / Sealed
- Five popular terminal styles
- Standoffs
- Patent #4427966 drive mechanism

3299 - 3/8" Square 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 Travel.....25 turns nom.

Environmental Characteristics

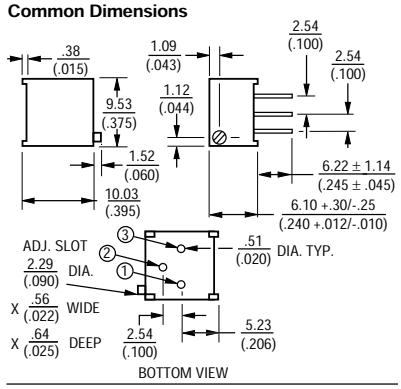
Power Rating (300 volts max.)
70°C .....0.5 watt
125°C .....0 watt
Temperature Range.....-55°C to +125°C
Temperature Coefficient .....±100ppm/°C
Seal Test .....85°C Fluorinert*
Humidity.....MIL-STD-202 Method 103 96 hours (2% ΔTR, 10 Megohms IR)
Vibration.....20G (1% ΔTR; 1% ΔVR)
Shock.....100G (1% ΔTR; 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

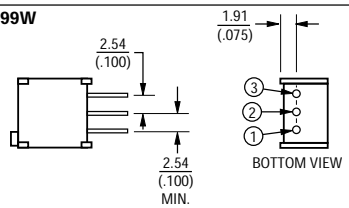
Torque .....3.0 oz-in. max.
Mechanical Stops.....Wiper idles
Terminals .....Solderable pins
Weight .....0.035 oz.
Marking .....Manufacturer's trademark, resistance code, wiring diagram, date code, manufacturer's model number and style
Wiper .....Set at CW end
Flammability .....U.L. 94V-0
Standard Packaging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

*"FLUORINERT" IS A REGISTERED TRADEMARK OF 3M CO.

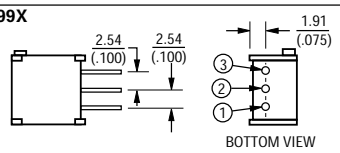
3299P
Common Dimensions



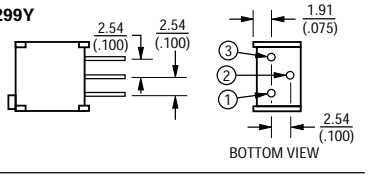
3299W



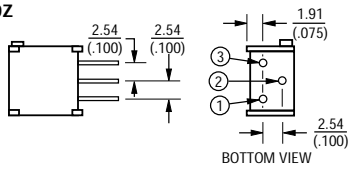
3299X

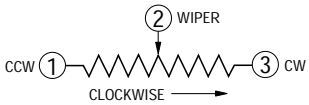


3299Y



3299Z





TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

DIMENSIONS ARE: METRIC / (INCHES)

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 values listed in boldface. Special resistances available.

How To Order

3299 W - 1 - 103

Model
Style
Standard or Modified Product Indicator
-1 = Standard Product
Resistance Code

Consult factory for other available options.