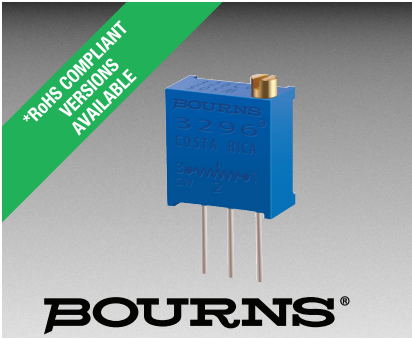




THE DATASHEET OF
3296Z-1-503





Features

- Multiturn / Cermet / Industrial / Sealed
- 5 terminal styles
- Tape and reel packaging available
- Chevron seal design
- [Listed on the QPL](#) for style [RJ24](#) per MIL-R-22097 and [RJ24](#) per High-Rel Mil-R-39035

- [Mounting hardware available \(H-117P\)](#)
- RoHS compliant* version available
- For trimmer applications/processing guidelines, [click here](#)

3296 - 3/8" Square Timpot® Trimming Potentiometer

Additional Information

Click these links for more information:



Electrical Characteristics

- Standard Resistance Range 10 ohms 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

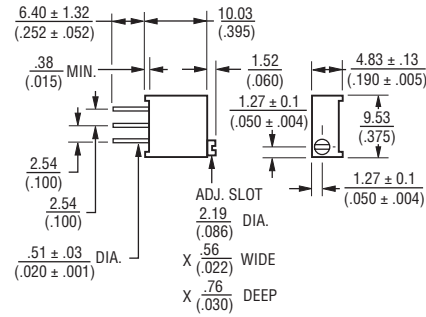
- Power Rating (300 volts max.)
 70 °C 0.5 watt
 125 °C 0 watt
- Temperature Range -55 °C to +125 °C
- Temperature Coefficient ±100 ppm/°C
- Seal Test 85 °C Fluorinert†
- Humidity MIL-STD-202 Method 103 96 hours (2 % ΔTR, 10 Megohms IR)
- Vibration 20 G (1 % ΔTR; 1 % ΔVR)
- Shock 100 G (1 % ΔTR; 1 %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

Physical Characteristics

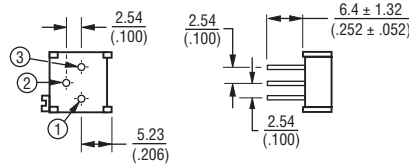
- Torque 3.0 oz-in. max.
- Mechanical Stops Wiper idles
- Terminals Solderable pins
- Weight 0.03 oz.
- Marking Manufacturer's trademark, resistance code, wiring diagram, date code, mfr's. model number and style
- Wiper 50 % (Actual TR) ±10 %
- Flammability U.L. 94V-0
- Standard Packaging 50 pcs. per tube
- Adjustment Tool H-90
- Storage Condition 40 °C max. / 70 % R.H. max.

Product Dimensions

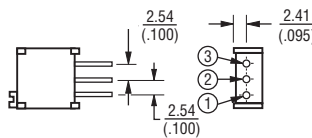
Common Dimensions



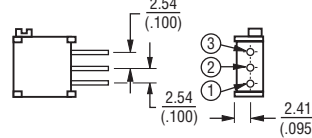
3296P



3296W



3296X

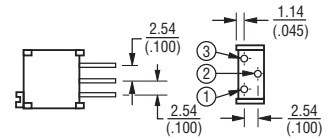


Standard Resistance Table

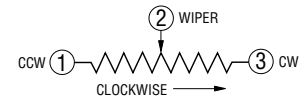
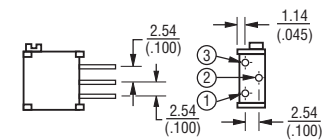
Resistance (Ohms)	Resistance Code
10	100
20	200
50	500
100	101
200	201
500	501
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
25,000	253
50,000	503
100,000	104
200,000	204
250,000	254
500,000	504
1,000,000	105
2,000,000	205

Popular values listed in boldface. Special resistances available.

3296Y



3296Z



DIMENSIONS: MM
 (INCHES)

TOLERANCES: ± 0.25 EXCEPT WHERE NOTED
 (.010)

How To Order

- 3296 W - 1 - 103 LF**
- Model _____
- Style _____
- Standard or Modified Product Indicator _____
 -1 = Standard Product
- Resistance Code _____
- Packaging Designator _____
 Blank = Tube (Standard)
 R = Tape and Reel (X and W Pin Styles Only)
 A = Ammo Pack (X and W Pin Styles Only)
- Tape and reel material meets Antistatic ANSI/ESD 5541-2003 packaging standards.
- 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

*RoHS Directive 2015/863, Mar. 31, 2015 and Annex "Timpot" is a trademark of Bourns, Inc.
 †"Fluorinert" is a registered trademark of 3M Co.
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3296 - 3/8" Square Timpot® Trimming Potentiometer

BOURNS®

Packaging Specifications

SIDE ADJUST 3296X-1



TOP ADJUST 3296W-1



Meets EIA Specification 468.

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Users should verify actual device performance in their specific applications.

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-  Alternative Solution
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