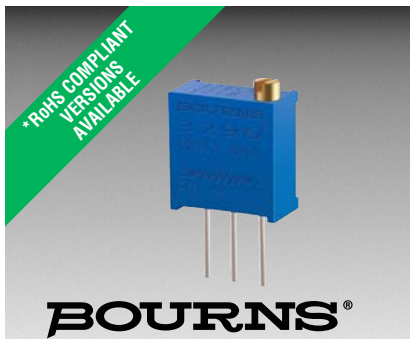




## Features

- 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 RJR24 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 Trimpot® Trimming Potentiometer

### Electrical Characteristics

|                              |                                                         |
|------------------------------|---------------------------------------------------------|
| Standard Resistance Range    | 10 ohms to 2 megohms<br>(see standard resistance table) |
| Resistance Tolerance         | ±10 % std.<br>(tighter tolerance available)             |
| Absolute Minimum Resistance  | 1 % or 2 ohms max.<br>(whichever is greater)            |
| Contact Resistance Variation | 1.0 % or 3 ohms max.<br>(whichever is greater)          |
| Adjustability                |                                                         |
| Voltage                      | ±0.01 %                                                 |
| Resistance                   | ±0.05 %                                                 |
| Resolution                   | Infinite                                                |
| Insulation Resistance        | 500 vdc.<br>1,000 megohms min.                          |
| Dielectric Strength          |                                                         |
| Sea Level                    | 900 vac                                                 |
| 70,000 Feet                  | 350 vac                                                 |
| Effective Travel             | 25 turns nom.                                           |

### Environmental Characteristics

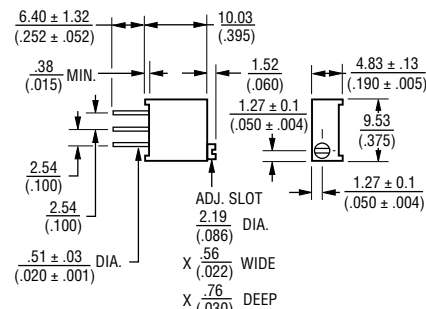
|                               |                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------|
| Power Rating (300 volts max.) |                                                                                        |
| 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<br>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<br>(3 % ΔTR; 3 % or 3 ohms,<br>whichever is greater, CRV) |
| Rotational Life               | 200 cycles<br>(4 % ΔTR; 3 % or 3 ohms,<br>whichever is greater, CRV)                   |

### Physical Characteristics

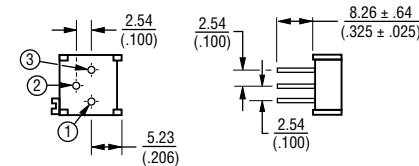
|                    |                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| Torque             | 3.0 oz-in. max.                                                                                                         |
| Mechanical Stops   | Wiper idles                                                                                                             |
| Terminals          | Solderable pins                                                                                                         |
| Weight             | 0.03 oz.                                                                                                                |
| Marking            | Manufacturer's<br>trademark, resistance code,<br>wiring diagram, date code,<br>manufacturer's model<br>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

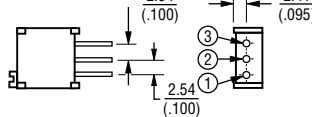
#### Common Dimensions



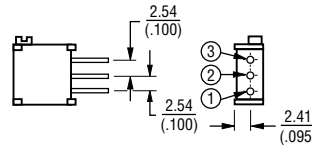
#### 3296P



#### 3296W



#### 3296X

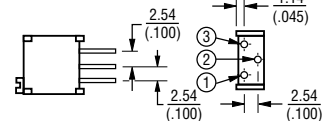


### How To Order

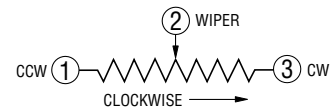
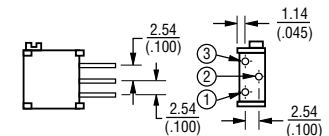
|                      |                                        |
|----------------------|----------------------------------------|
| Model                | 3296                                   |
| Style                | W                                      |
| Standard or Modified | -1                                     |
| Product Indicator    | -1 = Standard Product                  |
| Resistance Code      | 103                                    |
| Packaging Designator | LF                                     |
| Terminations         |                                        |
| LF                   | 100 % Tin-plated (RoHS compliant)      |
| Blank                | 90 % Tin / 10 % Lead-plated (Standard) |

Consult factory for other available options.

#### 3296Y



#### 3296Z



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 values listed in boldface. Special resistances available.

†"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.

Specifications are subject to change without notice.

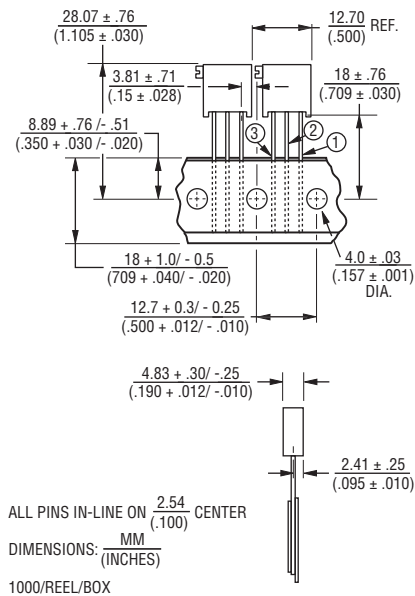
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

# 3296 - 3/8 " Square Trimpot® Trimming Potentiometer

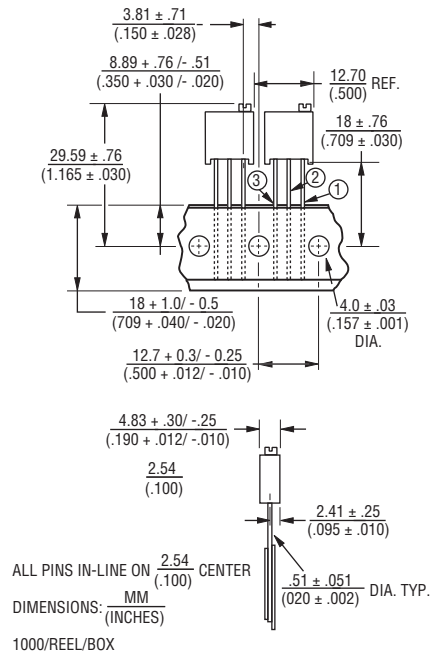
**BOURNS®**

## Packaging Specifications

### SIDE ADJUST 3296X-1



### TOP ADJUST 3296W-1



Meets EIA Specification 468.

REV. 04/14

"Trimpot" is a registered trademark of Bourns, Inc. Specifications are subject to change without notice.

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