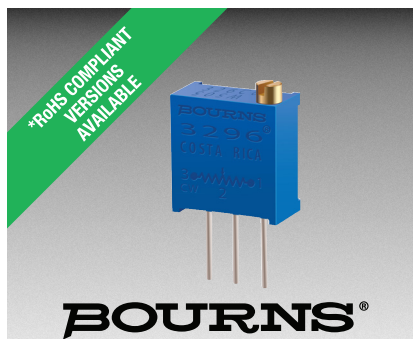




## Features

- 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 Trim Pot® Trimming Potentiometer

### Additional Information

Click these links for more information:



### 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

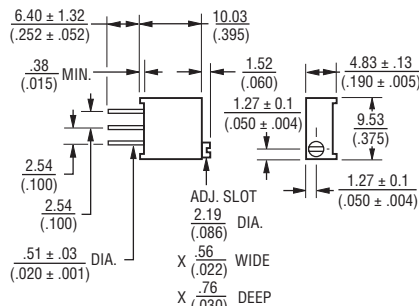
|                               |                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------|
| Power Rating (300 volts max.) |                                                                                     |
| 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                                                                               |
| 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, whichever is greater, CRV) |
| Rotational Life               | 200 cycles<br>(4 % ΔTR; 3 % or 3 ohms, whichever is greater, CRV)                   |
| Moisture Sensitivity Level    | N/A                                                                                 |
| ESD Classification (HBM)      | 2                                                                                   |

### Physical Characteristics

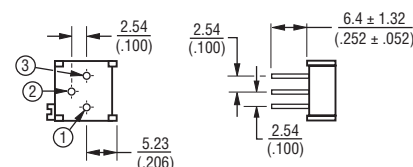
|                    |                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------|
| Torque             | 3.0 oz-in. max.                                                                                     |
| 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

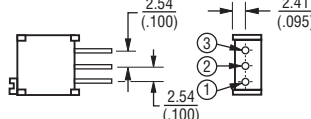
#### Common Dimensions



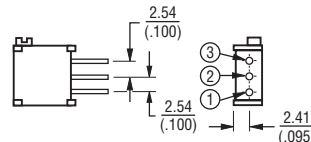
#### 3296P



#### 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             |

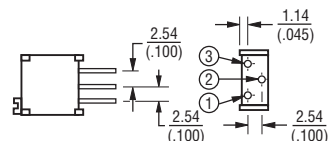
Popular values listed in **boldface**. Special resistances available.



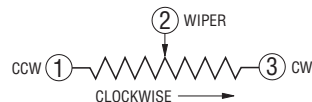
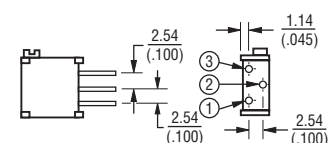
**CALIFORNIA WARNING:** Can expose you to lead, a carcinogen and reproductive toxicant.

See [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### 3296Y



#### 3296Z



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

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

### 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.

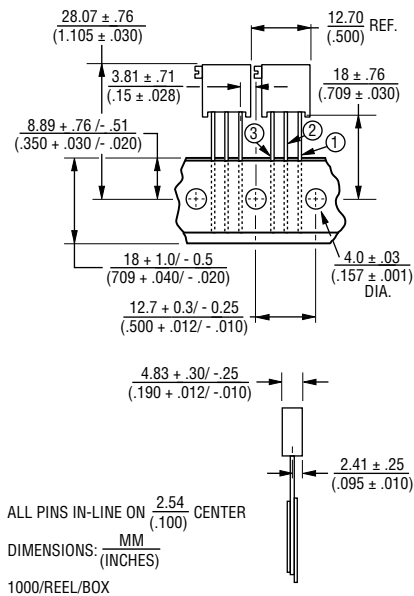
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# 3296 - 3/8 " Square Trimpot® Trimming Potentiometer

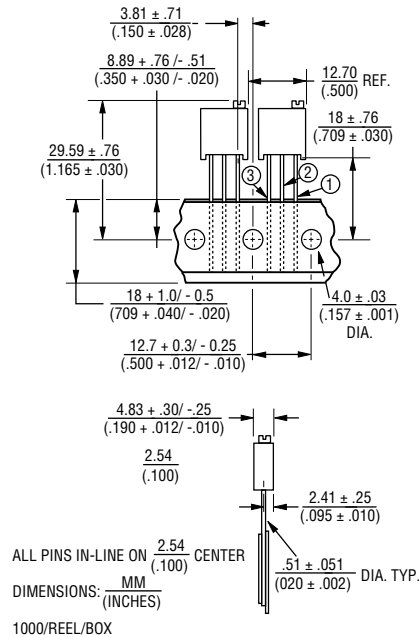
**BOURNS®**

## Packaging Specifications

### SIDE ADJUST 3296X-1



### TOP ADJUST 3296W-1



Meets EIA Specification 468.

DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

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