



## 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            |
|                              | (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

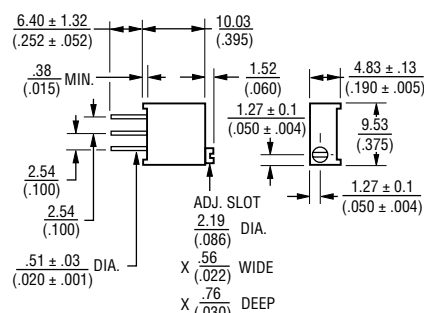
|                               |                              |
|-------------------------------|------------------------------|
| Power Rating (300 volts max.) |                              |
| 70 °C                         | 0.5 watt                     |
| 125 °C                        | 0 watt                       |
| 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)   |

### Physical Characteristics

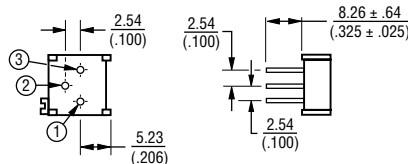
|                    |                             |
|--------------------|-----------------------------|
| Torque             | 3.0 oz-in. max.             |
| Mechanical Stops   | Wiper idles                 |
| Terminals          | Solderable pins             |
| Weight             | 0.03 oz.    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

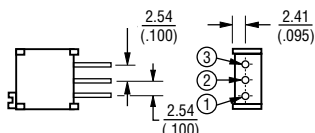
#### Common Dimensions



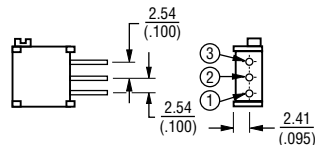
#### 3296P



#### 3296W



#### 3296X

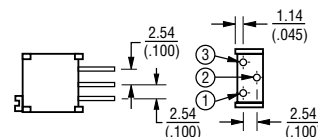


### How To Order

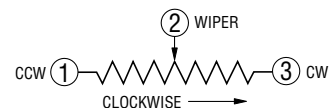
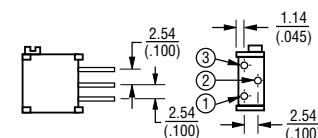
|                      |                                                |
|----------------------|------------------------------------------------|
| Model                | 3296                                           |
| Style                | W                                              |
| Standard or Modified | -1                                             |
| Product Indicator    | -1 = Standard Product                          |
| Resistance Code      | 103                                            |
| Packaging Designator | LF                                             |
|                      | Blank = Tube (Standard)                        |
|                      | R = Tape and Reel (X and W Pin Styles Only)    |
|                      | A = Ammo Pack (X and W Pin Styles Only)        |
| Terminations         |                                                |
|                      | LF = 100 % Tin-plated (RoHS compliant)         |
|                      | Blank = 90 % Tin / 10 % Lead-plated (Standard) |

Consult factory for other available options.

#### 3296Y



#### 3296Z



DIMENSIONS: MM  
(INCHES)

TOLERANCES: ± 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.

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

†"Fluorinert" is a registered trademark of 3M Co.

Specifications are subject to change without notice.

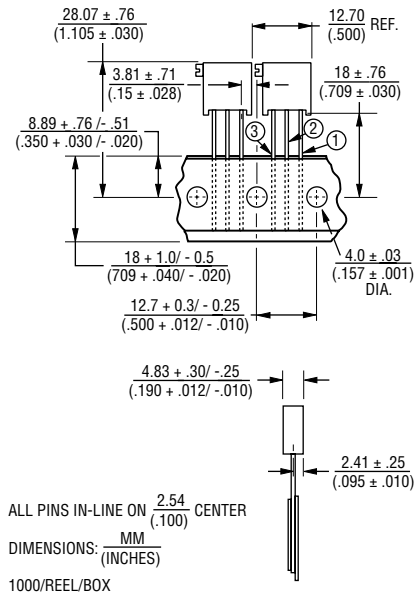
Customers should verify actual device performance in their specific applications.

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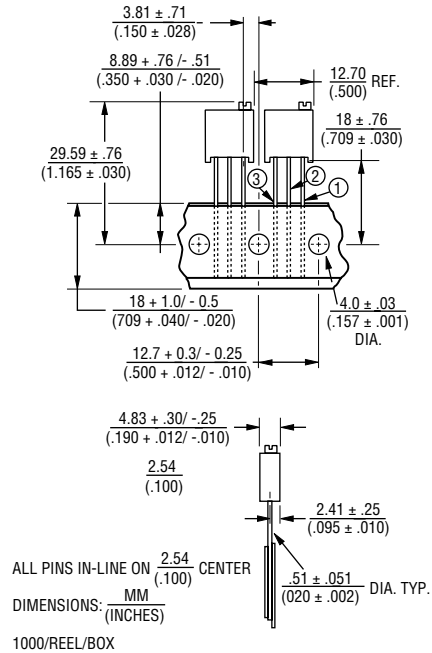
**BOURNS®**

## Packaging Specifications

### SIDE ADJUST 3296X-1



### TOP ADJUST 3296W-1



Meets EIA Specification 468.

REV. 08/10

"Trimpot" is a registered trademark of Bourns, Inc.  
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## Данный компонент на территории Российской Федерации

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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