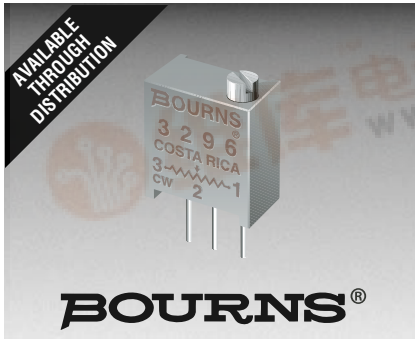




## Features

- 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)
- Lead free version available

## 3296 - 3/8 " Square 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.

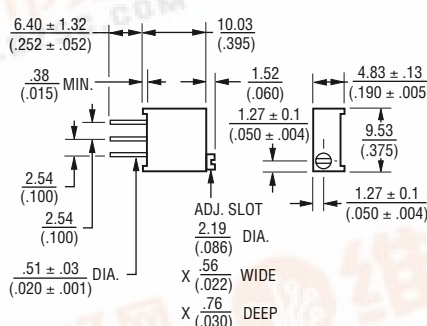
### Environmental Characteristics

Power Rating (300 volts max.)  
70 °C .....0.5 watt  
125 °C .....0 watt  
Temperature Range  
.....-55 °C to +150 °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)

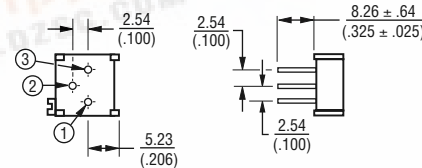
### Physical Characteristics

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 % ±10 %  
Flammability.....U.L. 94V-0  
Standard Packaging .....50 pcs. per tube  
Adjustment Tool .....H-90

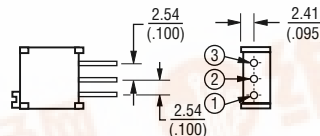
### Common Dimensions



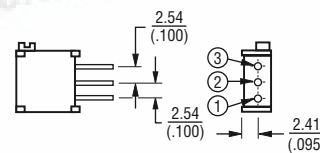
### 3296P



### 3296W



### 3296X

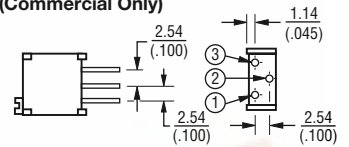


### How to Order

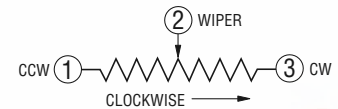
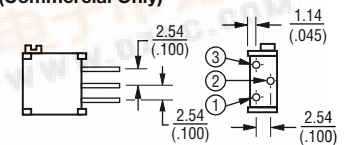
**3296 W - 1 - 103 LF**  
Model \_\_\_\_\_  
Style \_\_\_\_\_  
Standard or Modified  
Product Indicator  
-1 = Standard Product  
Resistance Code \_\_\_\_\_  
Packaging Designator \_\_\_\_\_  
Blank = Tube (Standard)  
R = Tape and Reel (X and W Pin Styles  
Only)  
A = Ammo Pack (X and W Pin Styles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

Consult factory for other available options.

### 3296Y (Commercial Only)



### 3296Z (Commercial Only)



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

DIMENSIONS ARE: MM  
(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             |

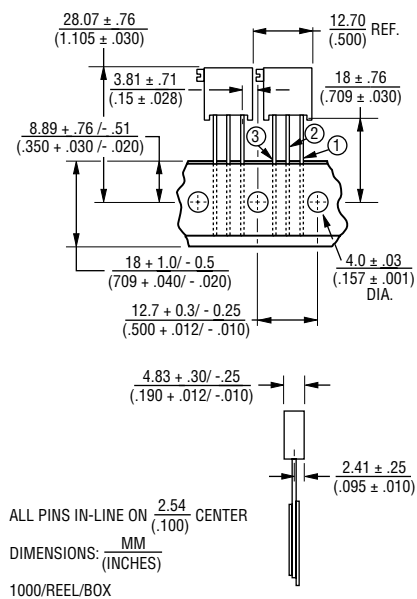
Popular values listed in boldface. Special resistances available.

# 3296 - 3/8 " Square Trimming Potentiometer

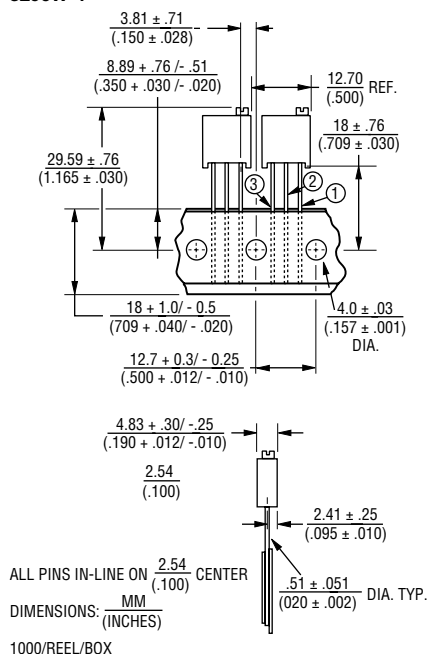
**BOURNS®**

## Packaging Specifications

### SIDE ADJUST 3296X-1



### TOP ADJUST 3296W-1



Meets EIA Specification 468.