

## Features

- High Performance Series 3/8" Square / Multiturn / Cermet / Industrial / Sealed
- Thin body profile
- Sealed to withstand board washing processes
- Low current applications <math>< 50 \mu\text{A}</math>
- Mounting hardware available



Model 3296-LC2 is obsolete and not recommended for new designs. Model 3296 is preferred.

## 3296-LC2 - 3/8" Square Trimpot® Trimming Potentiometer

### Electrical Characteristics

Standard Resistance Range ..... 500 ohms to 100K ohms  
 (see standard resistance table)  
 Resistance Tolerance .....  $\pm 10\%$  std.  
 Absolute Minimum Resistance ..... 2 ohms or 1% max.  
 (whichever is greater)  
 Contact Resistance Variation ..... 0.5% max.  
 Contact Resistance (D.C. mode) ..... 0.3% max.  
 D.C. Offset ..... 0.5% max.  
 Adjustability  
 Voltage .....  $\pm 0.1\%$   
 Resistance .....  $\pm 0.2\%$   
 Insulation Resistance ..... 500 vdc.  
 1,000 megohms min.  
 Dielectric Strength  
 Sea Level ..... 900 vac  
 70,000 feet ..... 350 vac  
 Adjustment Angle, Electrical  
 .....  $25 \pm 5$  turns

### Environmental Characteristics

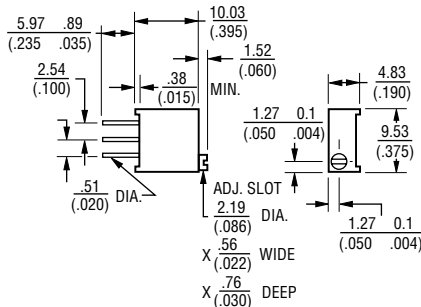
Power Rating (400 volts max.)  
 85 °C ..... 0.5 watt  
 125 °C ..... 0 watt  
 Temperature Range ... -55 °C to +125 °C  
 Temperature Coefficient ...  $\pm 100$  ppm/°C  
 Humidity ..... 80-90 %, RH, 10 cycles  
 2% max. TRS, IR 10 megohms  
 0.2% max. contact resistance shift  
 Seal Test ..... 85 °C Flourinert†  
 Vibration ..... 20 G - 0.5% VRS  
 0.2% contact resistance shift  
 Shock ..... 100 G - 0.5% VRS  
 0.2% contact resistance shift  
 Load Life @ 85 °C Rated Power  
 ..... 1,000 hours 3% TRS,  
 0.2% contact resistance  
 shift - 0.5% CRV  
 Rotational Life ..... 200 cycles, 4% TRS  
 0.2% contact resistance shift  
 Thermal Shock ..... 5 cycles  
 2% TRS, 0.5% VRS  
 0.2% contact resistance shift

### Physical Characteristics

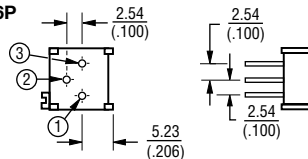
Torque ..... 3.0 oz-in. max.  
 Mechanical Stops ..... Wiper idles  
 Terminals ..... Solderable PC pins  
 Weight ..... 0.03 oz.  
 Marking ..... Manufacturer's trademark,  
 resistance code and date code  
 Wiper ..... 50%  $\pm 10\%$   
 Flammability ..... U.L. 94V-0  
 Standard Packaging ..... 50 pcs. per tube  
 Adjustment Tool ..... H-90

### Product Dimensions

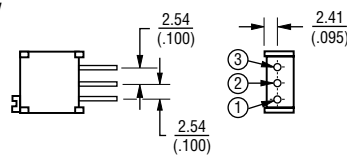
#### Common Dimensions



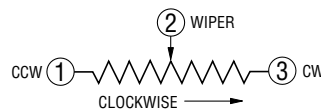
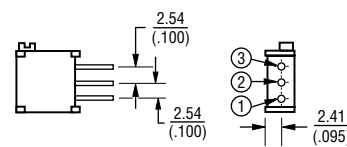
#### 3296P



#### 3296W



#### 3296X



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$   
 TOLERANCES:  $\pm \frac{0.25}{(.010)}$  EXCEPT WHERE NOTED

### Standard Resistance Table

Resistance (Ohms)	Resistance Code
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

Shaded areas typically not stocked by distributors and not recommended for new designs.

### How To Order

**3296 W - LC2 - 103 LF**

Model \_\_\_\_\_  
 Style \_\_\_\_\_  
 Product Indicator \_\_\_\_\_  
 Resistance Code \_\_\_\_\_  
 Terminations  
 LF = 100% Tin-plated (RoHS compliant)  
 Blank = 90% Tin / 10% Lead-plated (Standard)  
 Consult factory for other available options.

REV. 03/10

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.  
 "Trimpot" is a registered trademark of Bourns, Inc.  
 †"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.