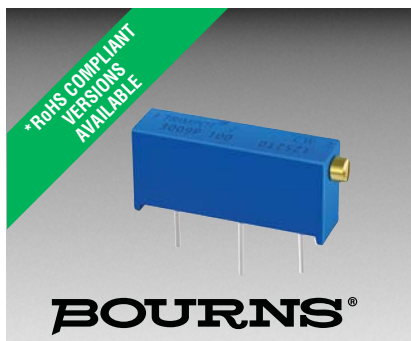




## Features

- Multiturn / Cermet / Industrial / Sealed
- Low temperature coefficient:  $\pm 100$  ppm/ $^{\circ}\text{C}$
- Stable, infinite resolution cermet element
- CRV 1.0 % or 1 ohm
- Panel mount option available
- RoHS compliant\* version available

■ For trimmer applications/processing guidelines, [click here](#)

## 3009 - 3/4 " Rectangular Trimpot® Trimming Potentiometer

### Electrical Characteristics

|                              |                                                    |
|------------------------------|----------------------------------------------------|
| Standard Resistance Range    | 10 to 2 megohms<br>(see standard resistance table) |
| Resistance Tolerance         | $\pm 10$ % std.<br>(tighter tolerance available)   |
| Absolute Minimum Resistance  | 1.0 % or 2 ohms max.<br>(whichever is greater)     |
| Contact Resistance Variation | 1.0 % or 1 ohm max.<br>(whichever is greater)      |
| Adjustability                |                                                    |
| Voltage                      | $\pm 0.01$ %                                       |
| Resistance                   | $\pm 0.05$ %                                       |
| Resolution                   | Infinite                                           |
| Insulation Resistance        | 500 vdc<br>100 megohms min.                        |
| Dielectric Strength          |                                                    |
| Sea Level                    | 1,000 vac                                          |
| 80,000 Feet                  | 250 vac                                            |
| Adjustment Angle             | 15 turns nom.                                      |

### Environmental Characteristics

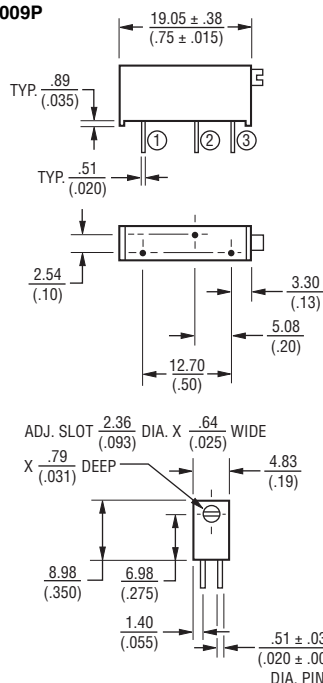
|                               |                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------|
| Power Rating (400 volts max.) |                                                                                    |
| 70 $^{\circ}\text{C}$         | 0.75 watt                                                                          |
| 150 $^{\circ}\text{C}$        | 0 watt                                                                             |
| Temperature Range             | -55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$                                  |
| Temperature Coefficient       | $\pm 100$ ppm/ $^{\circ}\text{C}$                                                  |
| Seal Test                     | 85 $^{\circ}\text{C}$ Fluorinert†                                                  |
| Humidity                      | MIL-STD-202 Method 103<br>96 hours<br>(3 % $\Delta\text{TR}$ , 20 megohms IR)      |
| Vibration                     | 20 G (2 % $\Delta\text{TR}$ ; 2 % $\Delta\text{VR}$ )                              |
| Shock                         | 50 G (2 % $\Delta\text{TR}$ ; 2 % $\Delta\text{VR}$ )                              |
| Load Life                     | 1,000 hours, 0.75 watt @ 70 $^{\circ}\text{C}$<br>(4 % $\Delta\text{TR}$ )         |
| Rotational Life               | 200 cycles<br>(3 % $\Delta\text{TR}$ ; 1 % or 1 ohm,<br>whichever is greater, CRV) |

### Physical Characteristics

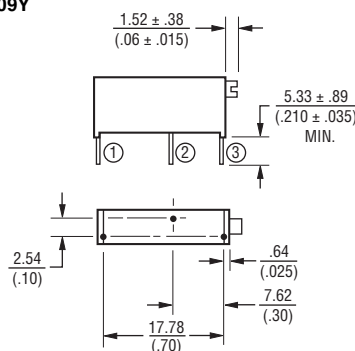
|                    |                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|
| Torque             | 5.0 oz-in. max.                                                                                                           |
| Mechanical Stops   | Wiper idles                                                                                                               |
| Terminals          | Solderable pins                                                                                                           |
| Weight             | 0.05 oz.                                                                                                                  |
| Marking            | Manufacturer's<br>trademark, resistance code,<br>terminal numbers, date code,<br>manufacturer's model number<br>and style |
| Standard Packaging | 25 pcs. per tube                                                                                                          |

### Product Dimensions

#### 3009P

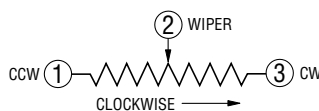


#### 3009Y



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             |

### How To Order

Model 3009 P - 1 - 103 Z LF

Style \_\_\_\_\_

Standard or Modified  
Product Indicator \_\_\_\_\_

-1 = Standard Product  
-11 = 5 % Resistance Tolerance

Resistance Code \_\_\_\_\_

Optional Suffix Letter \_\_\_\_\_

Z = Panel Mount (Factory Installed)

Terminations \_\_\_\_\_

LF = 100 % Tin-plated (RoHS compliant)  
Blank = 90 % Tin / 10 % Lead-plated  
(Standard)

Consult factory for other available options.

REV. 04/14

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

“Trimpot” is a registered trademark of Bourns, Inc.

†“Fluorinert” is a registered trademark of 3M Co.

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.