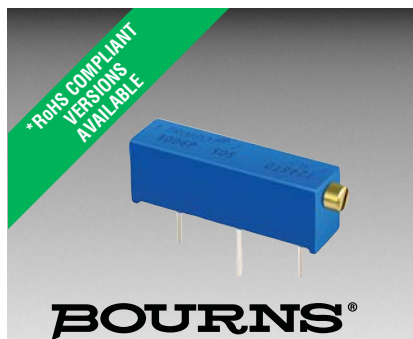




## Features

- 3/4 " Rectangular / Multiturn / Cermet / Industrial / Sealed
- Low PC board profile - only 1/4 " high
- **Panel mount option available**
- Transparent housing available, can be set visually without hook-up and instrumentation ("P" style only)

- RoHS compliant\* version available
- For trimmer applications/processing guidelines, [click here](#)

## 3006 - Trimpot® Trimming Potentiometer

### Electrical Characteristics

|                              |                                                    |
|------------------------------|----------------------------------------------------|
| Standard Resistance Range    | 10 to 5 megohms<br>(see standard resistance table) |
| Resistance Tolerance         | ±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                      | ±0.01 %                                            |
| Resistance                   | ±0.05 %                                            |
| Resolution                   | Infinite                                           |
| Insulation Resistance        | 500 vdc.<br>1,000 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 °C                         | 0.75 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<br>96 hours<br>(3 % ΔTR, 20 Megohms IR)      |
| Vibration                     | 20 G (2 % ΔTR; 2 % ΔVR)                                             |
| Shock                         | 50 G (2 % ΔTR; 2 % ΔVR)                                             |
| Load Life                     | 1,000 hours 0.75 watt 70 °C<br>(4 % ΔTR)                            |
| Rotational Life               | 200 cycles<br>(3 % ΔTR; 1 % or 1 ohm,<br>whichever is greater, CRV) |

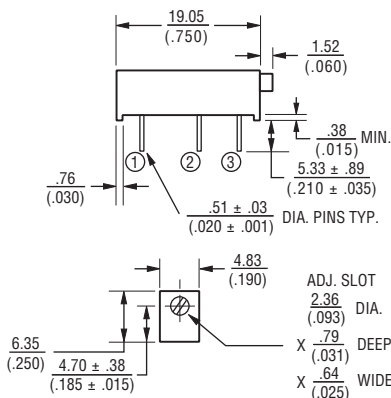
### Physical Characteristics

|                    |                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|
| Torque             | 5.0 oz-in. max.                                                                                                           |
| Mechanical Stops   | Wiper idles                                                                                                               |
| Terminals          | Solderable pins                                                                                                           |
| Weight             | 0.04 oz.                                                                                                                  |
| Marking            | Manufacturer's<br>trademark, resistance code,<br>terminal numbers, date code,<br>manufacturer's model number<br>and style |
| Wiper              | 50 % (Actual TR) ±10 %                                                                                                    |
| Flammability       | U.L. 94V-0                                                                                                                |
| Standard Packaging | 25 pcs. per tube                                                                                                          |
| Adjustment Tool    | H-90                                                                                                                      |

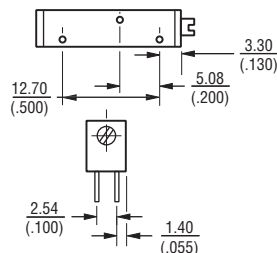
REV. 04/14

### Product Dimensions

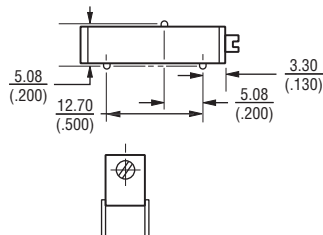
#### Common Dimensions



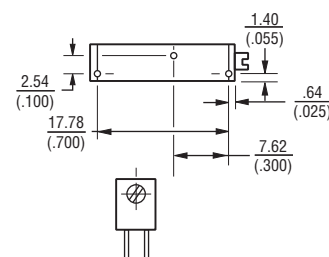
#### 3006P



#### 3006W



#### 3006Y



### How To Order

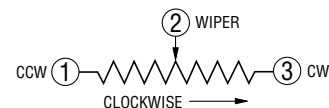
|                                        |                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------|
| Model                                  | 3006 P - 1 - 103 Z LF                                                                       |
| Style                                  |                                                                                             |
| Standard or Modified Product Indicator | -1 = Standard Product<br>-7 = Transparent Housing                                           |
| Resistance Code                        |                                                                                             |
| Optional Suffix Letter                 | Z = Panel Mount<br>(Factory Installed)                                                      |
| Terminations                           | LF = 100 % Tin-plated (RoHS compliant)<br>Blank = 90 % Tin / 10 % Lead-plated<br>(Standard) |

Consult factory for other available options.

### Standard Resistance Table

| Resistance (Ohms) | Resistance Code |
|-------------------|-----------------|
| 10                | 100             |
| 20                | 200             |
| 50                | 500             |
| 100               | 101             |
| 200               | 201             |
| <b>500</b>        | <b>501</b>      |
| <b>1,000</b>      | <b>102</b>      |
| <b>2,000</b>      | <b>202</b>      |
| <b>5,000</b>      | <b>502</b>      |
| <b>10,000</b>     | <b>103</b>      |
| <b>20,000</b>     | <b>203</b>      |
| <b>25,000</b>     | <b>253</b>      |
| <b>50,000</b>     | <b>503</b>      |
| <b>100,000</b>    | <b>104</b>      |
| <b>200,000</b>    | <b>204</b>      |
| 250,000           | 254             |
| 500,000           | 504             |
| 1,000,000         | 105             |
| 2,000,000         | 205             |

Popular distribution values listed in boldface.  
Special resistances available.



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

\*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.