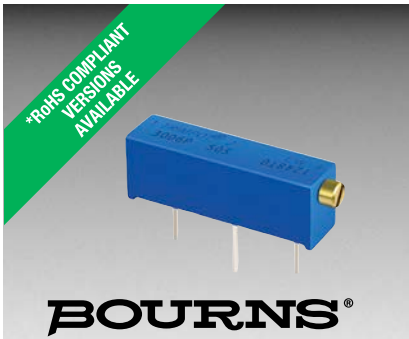




**THE DATASHEET OF**  
**3006P-1-502**





## 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 (see standard resistance table)
Resistance Tolerance	±10 % std. (tighter tolerance available)
Absolute Minimum Resistance	1.0 % or 2 ohms max. (whichever is greater)
Contact Resistance Variation	1.0 % or 1 ohm 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	1,000 vac
80,000 Feet	250 vac
Adjustment Angle	15 turns nom.

### Environmental Characteristics

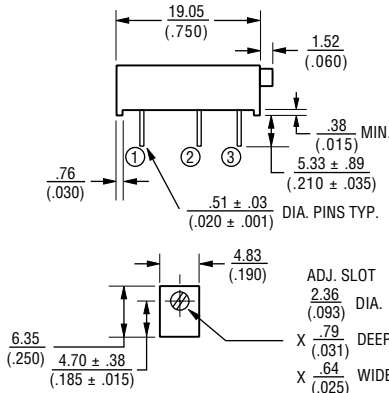
Power Rating (400 volts max.)	
70 °C	0.75 watt
125 °C	0 watt
Temperature Range	-55 °C to +125 °C
Temperature Coefficient	±100 ppm/°C
Seal Test	85 °C Fluorinert†
Humidity	MIL-STD-202 Method 103 96 hours (3 % ΔTR, 20 Megohms IR)
Vibration	20 G (2 % ΔTR; 2 % ΔVR)
Shock	50 G (2 % ΔTR; 2 % ΔVR)
Load Life	1,000 hours 0.75 watt 70 °C (4 % ΔTR)
Rotational Life	200 cycles (3 % ΔTR; 1 % or 1 ohm, whichever is greater, CRV)

### Physical Characteristics

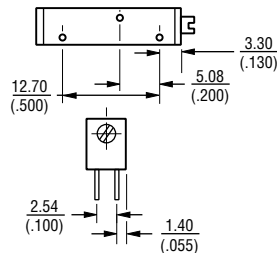
Torque	5.0 oz-in. max.
Mechanical Stops	Wiper idles
Terminals	Solderable pins
Weight	0.04 oz.
Marking	Manufacturer's trademark, resistance code, terminal numbers, date code, manufacturer's model number and style
Wiper	50 % (Actual TR) ±10 %
Flammability	U.L. 94V-0
Packaging	
Standard	25 pcs. per tube
3006W w/Panel Mount	
	72 pcs. per box
Adjustment Tool	H-90

### Product Dimensions

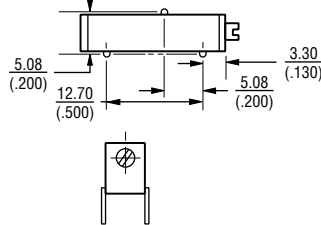
#### Common Dimensions



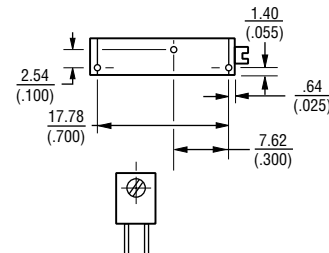
#### 3006P



#### 3006W



#### 3006Y



### How To Order

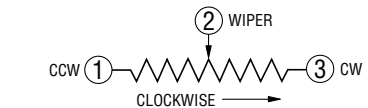
Model	<b>3006 P - 1 - 103 Z LF</b>
Style	
Standard or Modified Product Indicator	-1 = Standard Product -7 = Transparent Housing
Resistance Code	
Optional Suffix Letter	Z = Panel Mount (Factory Installed)
Terminations	LF = 100 % Tin-plated (RoHS compliant) Blank = 90 % Tin / 10 % Lead-plated (Standard)

Consult factory for other available options.

### 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: ±  $\frac{0.25}{(.010)}$  EXCEPT WHERE NOTED

REV. 06/19

\*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.

Users should verify actual device performance in their specific applications.

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