

## 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

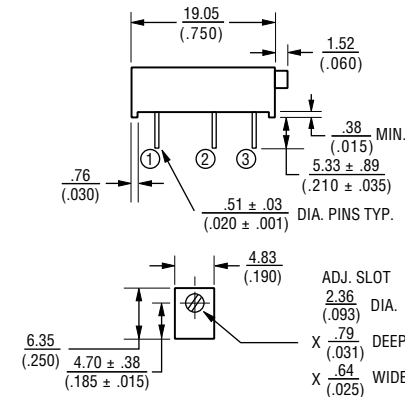
Power Rating (400 volts max.)  
 70 °C ..... 0.75 watt  
 125 °C ..... 0 watt  
 Temperature Range ... -55 °C to +125 °C  
 Temperature Coefficient ... ±100 ppm/°C  
 Seal Test ..... 85 °C Fluorinert†  
 Humidity ..... MIL-STD-202 Method 103  
 96 hours  
 (3 % ΔTR, 20 Megohms IR)  
 Vibration ..... 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

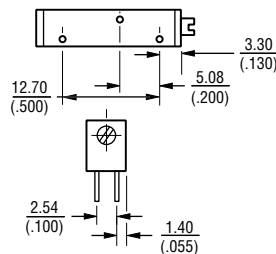
Torque..... 5.0 oz-in. max.  
 Mechanical Stops..... Wiper idles  
 Terminals ..... Solderable pins  
 Weight ..... 0.04 oz.  
 Marking..... Manufacturer's  
 trademark, resistance code,  
 terminal numbers, date code,  
 manufacturer's model number  
 and style  
 Wiper ..... 50 % (Actual TR) ±10 %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

## Product Dimensions

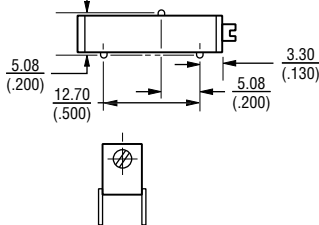
### Common Dimensions



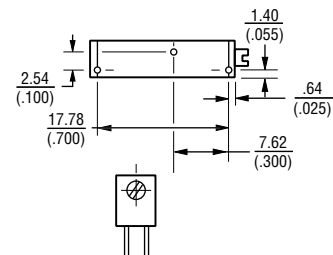
### 3006P



### 3006W



### 3006Y



## How To Order

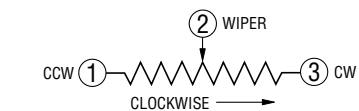
Model **3006 P - 1 - 103 Z LF**  
 Style \_\_\_\_\_  
 Standard or Modified Product Indicator  
 -1 = Standard Product  
 -7 = Transparent Housing  
 Resistance Code \_\_\_\_\_  
 Optional Suffix Letter  
 Z = Panel Mount  
 (Factory Installed)  
 Terminations  
 LF = 100 % Tin-plated (RoHS compliant)  
 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



**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

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

† "Fluorinert" is a registered trademark of 3M Co.

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