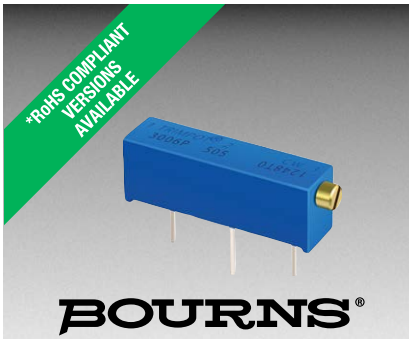




**THE DATASHEET OF
3006P-1-504**





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

Additional Information

Click these links for more information:



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† 96 hours
Humidity	MIL-STD-202 Method 103 (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)



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar. 31, 2015 and Annex

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

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

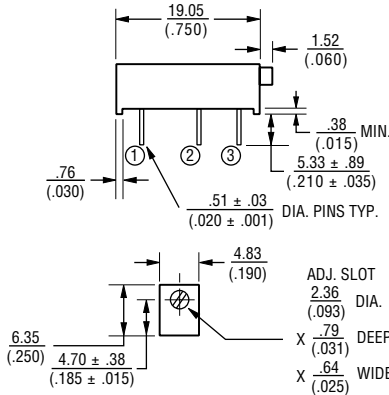
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

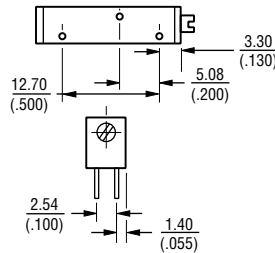
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Product Dimensions

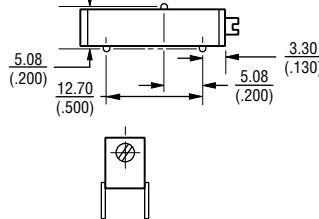
Common Dimensions



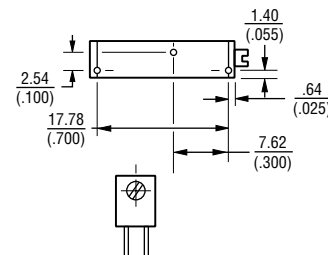
3006P



3006W



3006Y



Physical Characteristics

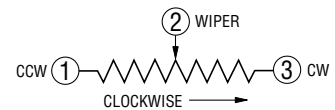
Torque	5.0 oz-in. max.
Mechanical Stops	Wiper idles
Terminals	Solderable pins
Weight	0.04 oz.
Marking	Manufacturer's trademark, resistance code, terminal numbers, date code, manufacturer's model number and style
Wiper	50 % (Actual TR) ±10 %
Flammability	U.L. 94V-0
Packaging	
Standard	25 pcs. per tube 3006W w/Panel Mount
	72 pcs. per box
Adjustment Tool	H-90
Storage Condition	40 °C max. / 70 % R.H. max.

How To Order

3006 P - 1 - 103 Z LF

Model	_____
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.



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

Popular distribution values listed in **boldface**.
Special resistances available.

BOURNS®

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The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

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REV. 02/24

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Users should verify actual device performance in their specific applications.

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