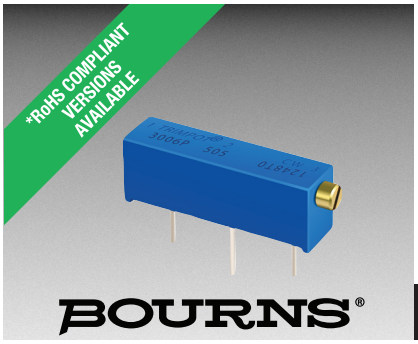


Features

- 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:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Electrical Characteristics

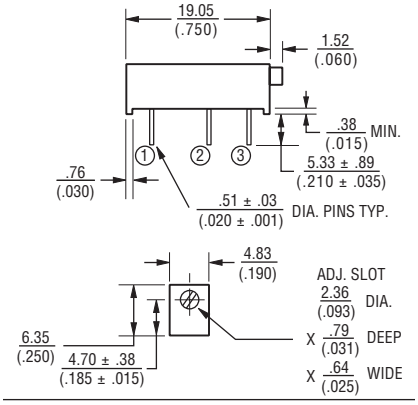
Standard Resistance Range ..... 10 to 5 megohms (see standard resistance table)
Resistance Tolerance ..... ±10 % std. (tighter tolerance available)
Absolute Minimum Resistance ..... 1.0 % or 2 ohms max. (whichever is greater)
Contact Resistance Variation ..... 1.0 % or 1 ohm max. (whichever is greater)
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

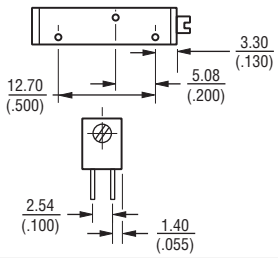
Power Rating (400 volts max.)
  70 °C ..... 0.75 watt
  125 °C ..... 0 watt
Temperature Range .... -55 °C to +125 °C
Temperature Coefficient .... ±100 PPM/°C
Seal Test ..... 85 °C
Humidity ..... MIL-STD-202 Method 103 96 hours (3 % ΔTR, 20 Megohms IR)
Vibration ..... 20 G (2 % ΔTR; 2 % ΔVR)
Shock ..... 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)

Product Dimensions

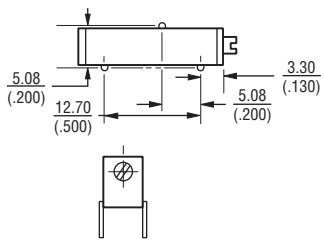
Common Dimensions



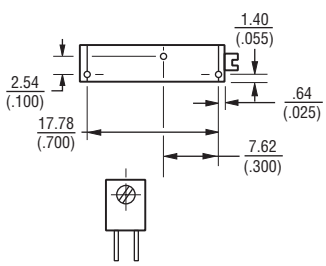
3006P



3006W



3006Y



Physical Characteristics

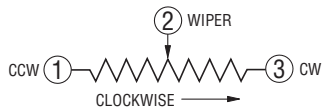
Torque ..... 5.0 oz-in. max.
Mechanical Stops ..... Wiper idles
Terminals ..... Solderable pins
Weight ..... 0.04 oz.
Marking ..... Manufacturer’s trademark, resistance code, terminal numbers, date code, manufacturer’s model number and style
Wiper ..... 50 % (Actual TR) ±10 %
Flammability ..... U.L. 94V-0
Packaging
  Standard ..... 25 pcs. per tube
  Panel Mount
    3006P, 3006Y ..... 20 pcs. per tube
    3006W ..... 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: MM (INCHES)

TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant. See www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar. 31, 2015 and Annex
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Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

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.

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