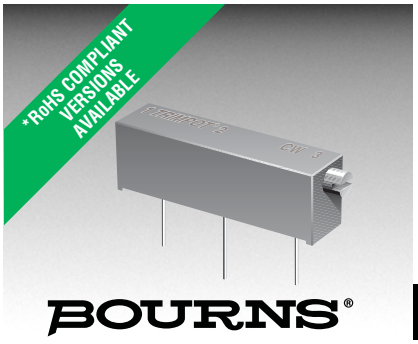


Features

- 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)

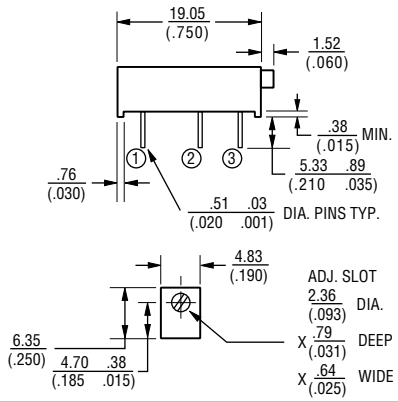
Physical Characteristics

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
Standard Packaging.....25 pcs. per tube
Adjustment Tool..... H-90

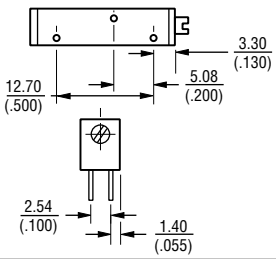
REV. 08/10

Product Dimensions

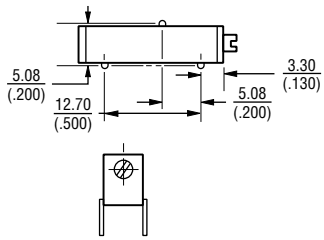
Common Dimensions



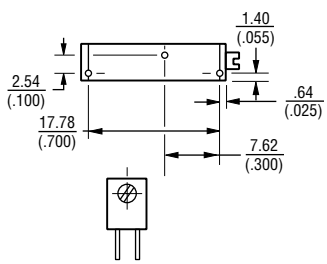
3006P



3006W



3006Y



DIMENSIONS: MM (INCHES)
TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

How To Order

3006 P - 1 - 103 Z LF

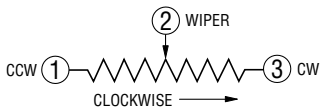
Model
Style
Standard or Modified Product Indicator
  -1 = Standard Product
  -7 = Transparent Housing
Resistance Code
Optional Suffix Letter
  Z = Panel Mount (Factory Installed)
Terminations
  LF = 100 % Tin-plated (RoHS compliant)
  Blank = 90 % Tin / 10 % Lead-plated (Standard)

Consult factory for other available options.

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.



*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
“Trimpot” is a registered trademark of Bourns, Inc.
†“Fluorinert” is a registered trademark of 3M Co.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.