

#### **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.

Adjustability Voltage ..... ±0.01 % Resistance ..... ±0.05 % Resolution ......Infinite Insulation Resistance ......500 vdc.

(whichever is greater)

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 (3 %  $\Delta$ TR, 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 %  $\Delta$ TR) Rotational Life ......200 cycles (3 % ΔTR: 1 % or 1 ohm. whichever is greater, CRV)

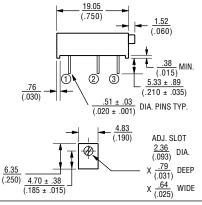
#### **Physical Characteristics**

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)  $\pm 10$  % Flammability ......U.L. 94V-0 Packaging Standard .....25 pcs. per tube 3006W w/Panel Mount .....72 pcs. per box Adjustment Tool......H-90

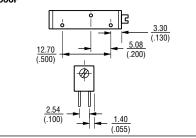
#### WARNING Cancer and **Reproductive Harm** www.P65Warnings.ca.gov

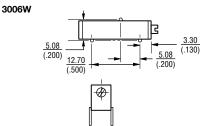
#### **Product Dimensions**

**Common Dimensions** 



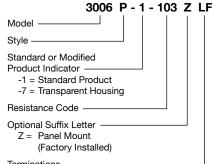
#### 3006P





# (.055)

### **How To Order**



Terminations

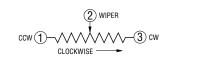
100 % Tin-plated (RoHS compliant) Blank = 90 % Tin / 10 % Lead-plated (Standard)

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.



MM DIMENSIONS: (INCHES) TOLERANCES: ± -**EXCEPT WHERE NOTED** 

REV. 08/19

3006Y

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

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Users should verify actual device performance in their specific applications.

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