Features

- 3/4" Rectangular / Multturn / 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

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 ..................±0.01 %

Insulation Resistance .........500 vdc

1,000 megohms min.

Dielectric Strength

Sea Level ..............85 °C Fluorinert†

Humidity .....................0.04 oz.

Dielectric Strength

Shock .....................20 G (2 % ΔVR)

Vibration .............50 G (2 % ΔTR; 2 % ΔVR)

Load Life .............1,000 hours 0.75 watt 70 °C

Rotational Life ...........200 cycles

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 .................UL 94V-0

Packaging

Standard ..................25 pcs. per tube

3006W w/Panel Mount

..................75 pcs. per box

Adjustment Tool ............H-90

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.

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)

Product Dimensions

Common Dimensions

Dimensions: (MM)

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
50,000 | 253
100,000 | 503
200,000 | 104
500,000 | 254
1,000,000 | 504
2,000,000 | 105

Popular distribution values listed in boldface.

Special resistances available.

Standard Resistance Table

Dimensions: (INCHES)

TOLERANCES: ±0.25 (0.010) EXCEPT WHERE NOTED

REV. 04/17


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

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.