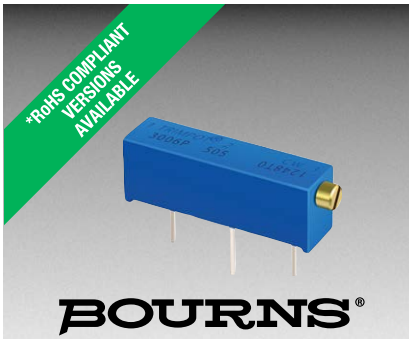




THE DATASHEET OF
3006P-1-101





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

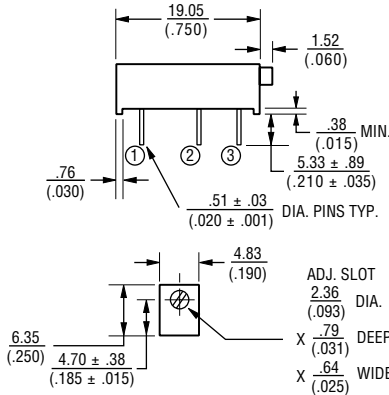
Standard Resistance Range 10 to 5 megohms
 (see standard resistance table)
 Resistance Tolerance ±10 % std.
 (tighter tolerance available)
 Absolute Minimum Resistance 1.0 % or 2 ohms max.
 (whichever is greater)
 Contact Resistance Variation 1.0 % or 1 ohm max.
 (whichever is greater)
 Adjustability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

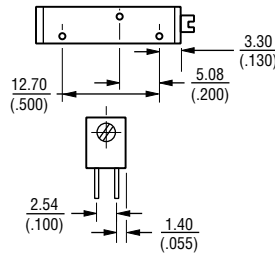
Power Rating (400 volts max.)
 70 °C 0.75 watt
 125 °C 0 watt
 Temperature Range -55 °C to +125 °C
 Temperature Coefficient ±100 PPM/°C
 Seal Test 85 °C Fluorinert†
 Humidity MIL-STD-202 Method 103
 96 hours
 (3 % ΔTR, 20 Megohms IR)
 Vibration 20 G (2 % ΔTR; 2 % ΔVR)
 Shock 50 G (2 % ΔTR; 2 % ΔVR)
 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

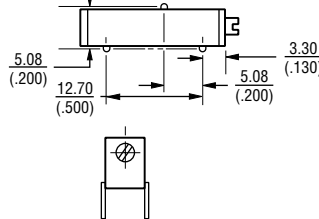
Common Dimensions



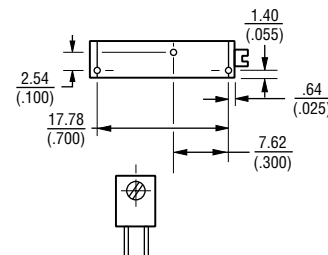
3006P



3006W



3006Y



Physical Characteristics

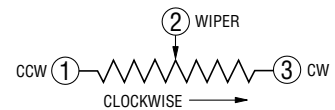
Torque 5.0 oz-in. max.
 Mechanical Stops Wiper idles
 Terminals Solderable pins
 Weight 0.04 oz.
 Marking Manufacturer's trademark, resistance code, terminal numbers, date code, manufacturer's model number and style
 Wiper 50 % (Actual TR) ±10 %
 Flammability U.L. 94V-0
 Packaging
 Standard 25 pcs. per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



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

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

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

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Users should verify actual device performance in their specific applications.

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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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- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management