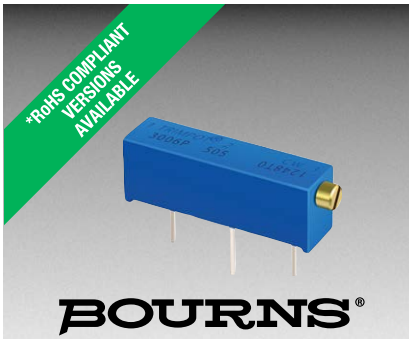




**THE DATASHEET OF
3006P-1-104**





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) |



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

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

“Trimpot” is a registered trademark of Bourns, Inc.

†“Fluorinert” is a registered trademark of 3M Co.

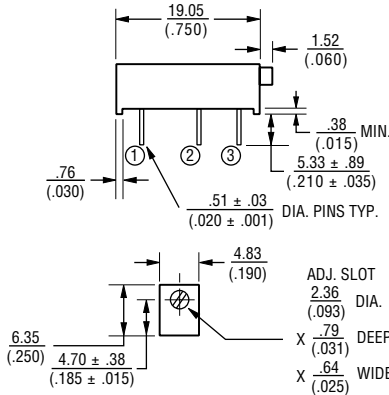
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

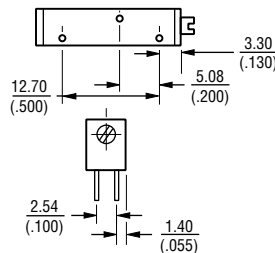
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Product Dimensions

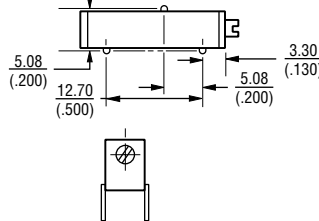
Common Dimensions



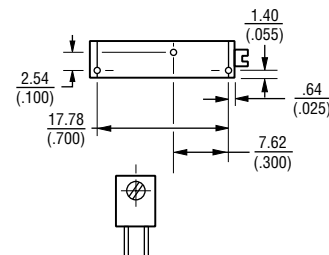
3006P



3006W



3006Y



Physical Characteristics

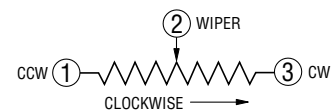
| | |
|-------------------|---|
| Torque | 5.0 oz-in. max. |
| Mechanical Stops | Wiper idles |
| Terminals | Solderable pins |
| Weight | 0.04 oz. |
| Marking | Manufacturer's trademark, resistance code, terminal numbers, date code, manufacturer's model number and style |
| Wiper | 50 % (Actual TR) ±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

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.

BOURNS®

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Users should verify actual device performance in their specific applications.

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