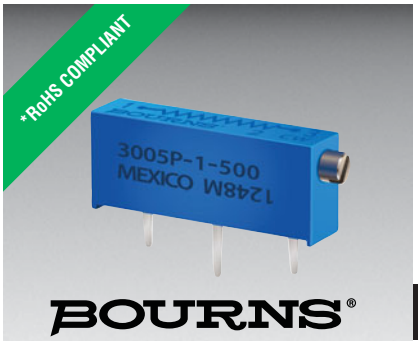


Features

- Multiturn / Wirewound / Industrial / Sealed
- Sealed to prevent contamination from fluxing, soldering and cleaning
- Panel mount option available
- RoHS compliant*
- For trimmer applications/processing guidelines, click here

3005 - 3/4 ” Rectangular Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range
.....10 to 50K ohms
(see standard resistance table)
Resistance Tolerance ..... ±10 % std.
(tighter tolerance available)
Absolute Minimum Resistance
.....0.5 % or 1 ohms max.
(whichever is greater)
Noise ..... 100 ohms ENR max.
Resolution
.....See standard resistance table
Insulation Resistance .....500 vdc.
100 megohms min.
Dielectric Strength
Sea Level .....1,000 vac
80,000 Feet .....250 vac
Adjustment Travel..... 20 turns nom.

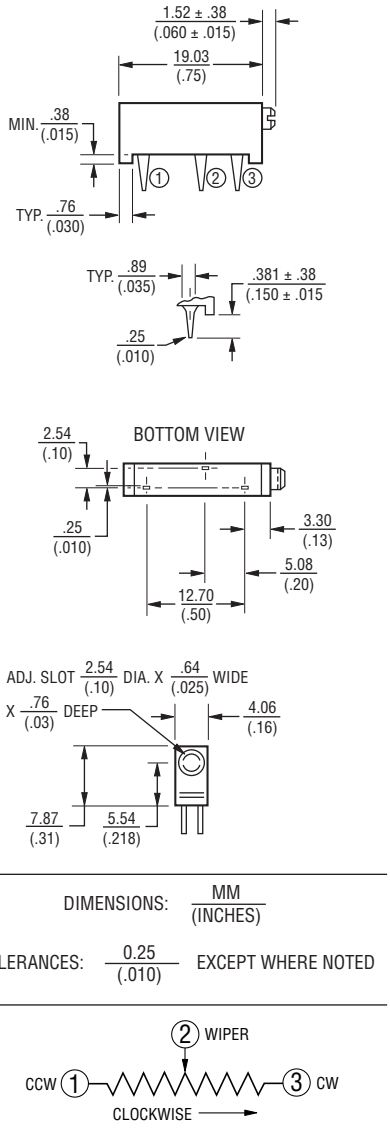
Environmental Characteristics

Power Rating
70 °C..... 1 watt
125 °C .....0 watt
Temperature Range.....-65 °C to +125 °C
Temperature Coefficient
..... ±50 ppm/°C
Seal Test .....85 °C Fluorinert†
Humidity .....MIL-STD-202 Method 106
96 hours
(5 % ΔTR, 20 megohms IR)
Vibration ..... 20 G (2 % ΔTR; 2 % ΔVR)
Shock ..... 50 G (2 % ΔTR; 2 % ΔVR)
Load Life ..... 1,000 hours, 1 watt @ 70 °C
(3 % ΔTR)
Rotational Life..... 200 cycles
(4 % ΔTR)

Physical Characteristics

Torque .....5.0 oz-in. max.
Mechanical Angle ..... Wiper idles
Terminals..... Solderable pins
Weight .....0.045 oz.
Marking ..... Manufacturer’s trademark, resistance code, wiring diagram, date code, manufacturer’s model number and style
Standard Packaging ..... 25 pcs. per tube

Product Dimensions



DIMENSIONS: MM / (INCHES)

TOLERANCES: 0.25 / (.010) EXCEPT WHERE NOTED

Standard Resistance Table

Resistance (Ohms)	Resistance Code	Nominal Resolution (Percent)
10	100	1.7
20	200	1.5
50	500	1.0
100	101	0.8
200	201	0.7
500	501	0.5
1,000	102	0.5
2,000	202	0.4
5,000	502	0.3
10,000	103	0.3
20,000	203	0.2
50,000	503	0.2

Special resistances available from 10 to 50K ohms.

How To Order

3005 P - 1 - 103 Z

Model
Style
Standard or Modified Product Indicator
-1 = Standard Product
Resistance Code
Optional Suffix Letter
Z = Panel Mount (Factory Installed)

Consult factory for other available options.

REV. 09/16

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
“Trimpot” is a registered trademark of Bourns, Inc.
†”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.