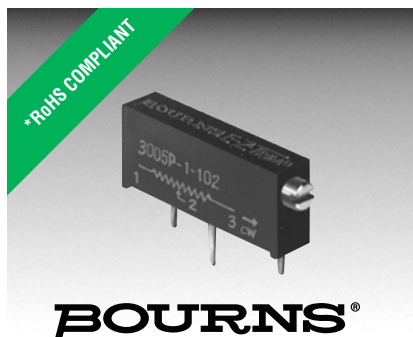




## Features

- Multiturn / Wirewound / Industrial / Sealed
- Sealed to prevent contamination from fluxing, soldering and cleaning
- Low cost model
- 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 .....  $\pm 10\%$  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.

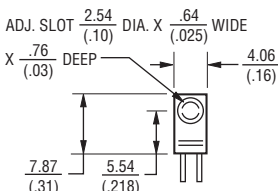
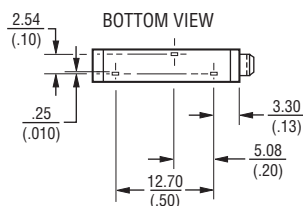
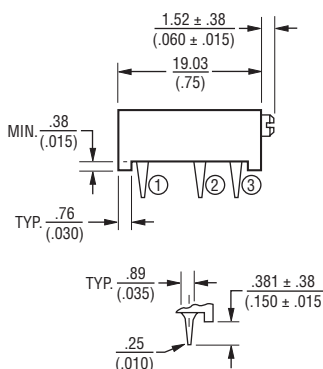
### Environmental Characteristics

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

### Physical Characteristics

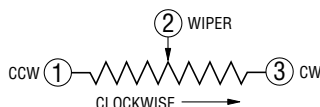
Torque ..... 5.0 oz-in. max.  
Mechanical Angle ..... Wiper idles  
Terminals ..... Solderable pins  
Weight ..... 0.045 oz.  
Marking ..... Manufacturer's  
trademark, resistance code,  
wiring diagram, date code,  
manufacturer's model number  
and style  
Standard Packaging ..... 25 pcs. per tube

### Product Dimensions



DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

TOLERANCES:  $\frac{0.25}{(.010)}$  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

Model **3005**  
Style **P**  
Standard or Modified  
Product Indicator **-1** = Standard Product  
Resistance Code **103**  
Optional Suffix Letter **Z** = Panel Mount (Factory Installed)  
Consult factory for other available options.

REV. 08/10

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

"Trimpot" is a registered trademark of Bourns, Inc.

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

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.