

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 $\pm 10\%$ 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.

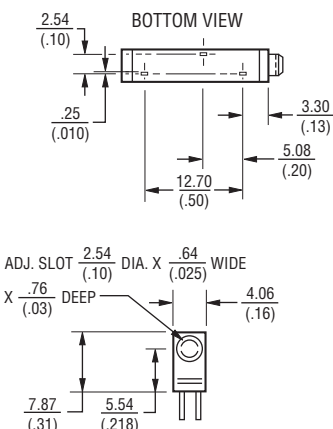
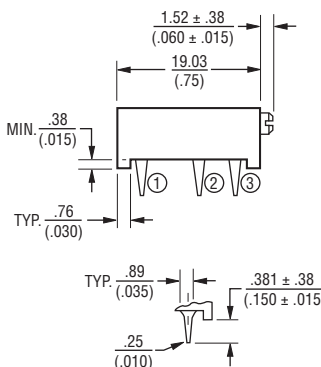
Environmental Characteristics

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

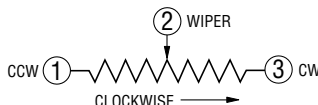
Physical Characteristics

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**
Resistance Code **103**
Optional Suffix Letter **Z**
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.

†"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.

Mouser Electronics

Authorized Distributor

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Bourns:

<u>3005P-1-103Z</u>	<u>3005P-1-503</u>	<u>3005P-1-501</u>	<u>3005P-1-502</u>	<u>3005P-1-103</u>	<u>3005P-1-102</u>	<u>3005P-1-100</u>	<u>3005P-1-101</u>
<u>3005P-1-201Z</u>	<u>3005P-1-502Z</u>	<u>3005P-1-253</u>	<u>3005P-1-200</u>	<u>3005P-1-201</u>	<u>3005P-1-202</u>	<u>3005P-1-203</u>	<u>3005P-1-500</u>
<u>3005P-1-202Z</u>	<u>3005P-1-10K</u>						