



BOURNS®

Features

- 1-1/4" Rectangular / Multiturn Wirewound / Industrial / Sealed
- Panel mount option available
- Listed on the QPL for style RT12 per MIL-PRF-27208
- RoHS compliant*

- For trimmer applications/processing guidelines, [click here](#)

3057 - Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range 10 to 50K ohms
 (see standard resistance table)
 Resistance Tolerance ±5 % std.
 (tighter tolerance available)
 Absolute Minimum Resistance 0.1 % or 1 ohm max.
 (whichever is greater)
 Noise 100 ohms ENR max.
 Resolution See Resistance Table
 Insulation Resistance 500 vdc.
 1,000 megohms min.
 Dielectric Strength
 Sea Level 1,500 vac
 70,000 Feet 400 vac
 Adjustment Travel 22 turns nom.

Environmental Characteristics

Power Rating @ 70 °C 1 watt
 Power Rating @ 150 °C 0 watt
 Temperature Range ... -55 °C to +150 °C
 Temperature Coefficient ±50 ppm/°C
 Seal Test 85 °C Fluorinert†
 (pin styles only)
 Humidity MIL-STD-202 Method 106
 96 hours
 2 % ΔTR, 100 Megohms IR)
 Vibration 30 G (1 % ΔTR; 0.5 %
 + resolution ΔVR)
 Shock 100 G (1 % ΔTR; 0.5 %
 + resolution ΔVR)
 Load Life.... 1,000 hours 1 watt @ 70 °C
 (2 % ΔTR)
 Rotational Life 200 cycles (2 % ΔTR)

Physical Characteristics

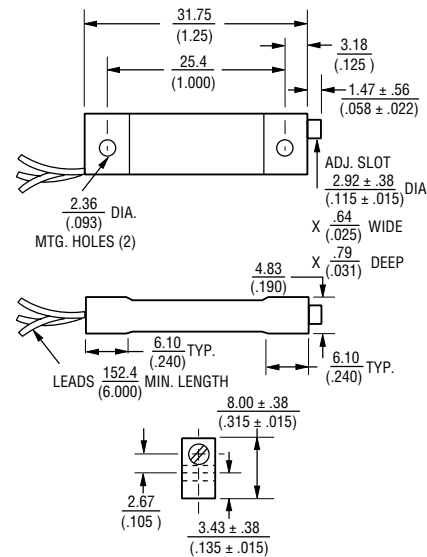
Torque 8.0 oz-in. max.
 Mechanical Stops Wiper idles
 Terminals Solderable pins and lugs
 Flexible leads (7 strands of 30 AWG)
 Weight 0.10 oz.
 Marking Manufacturer's trademark,
 resistance code, terminal numbers,
 date code, manufacturer's model
 number and style
 Wiper 50 % (Actual TR) ±10 %
 Flammability U.L. 94V-0
 Standard Packaging
 P&Y Style 10 pcs. per tube
 L&J Style 25 pcs. per bag
 Adjustment Tool H-90



Product Dimensions

3057L

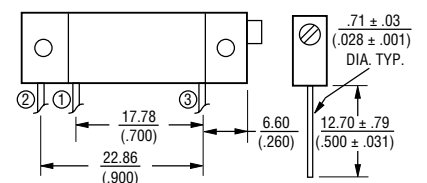
Common Dimensions



3057J



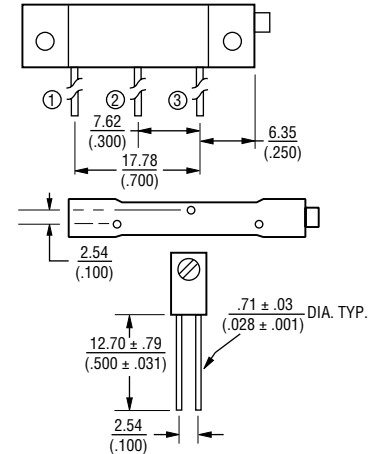
3057P



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

TOLERANCES: ± $\frac{0.25}{(.010)}$ EXCEPT WHERE NOTED

3057Y



Standard Resistance Table

Resistance (Ohms)	Resistance Code	Nominal Resolution (Percent)
10	100	2.40
20	200	1.90
50	500	1.40
100	101	1.00
200	201	0.86
500	501	0.89
1,000	102	0.72
2,000	202	0.58
5,000	502	0.43
10,000	103	0.34
20,000	203	0.31
50,000	503	0.24

Popular values listed in boldface. Special resistances available.

How To Order

Model 3057 L - 1 - 103 M
 Style _____
 Standard or Modified Product Indicator _____
 -1 = Standard Product
 Resistance Code _____
 Optional Suffix Letter _____
 M = Panel Mount (Factory Installed)

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.