

## 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

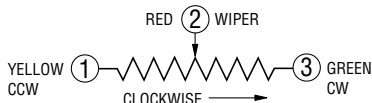
Standard Resistance Range ..... 10 to 50K ohms  
(see standard resistance table)  
Resistance Tolerance .....  $\pm 5\%$  std.  
(tighter tolerance available)  
Absolute Minimum Resistance ..... 0.1 % or 1 ohm max.  
(whichever is greater)  
Noise ..... 100 ohms ENR max.  
Resolution ..... See Resistance 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 .....  $\pm 50$  ppm/°C  
Seal Test ..... 85 °C Fluorinert†  
(pin styles only)  
Humidity ..... MIL-STD-202 Method 106  
96 hours  
2 %  $\Delta$ TR, 100 Megohms IR)  
Vibration ..... 30 G (1 %  $\Delta$ TR; 0.5 %  
+ resolution  $\Delta$ VR)  
Shock ..... 100 G (1 %  $\Delta$ TR; 0.5 %  
+ resolution  $\Delta$ VR)  
Load Life.... 1,000 hours 1 watt @ 70 °C  
(2 %  $\Delta$ TR)  
Rotational Life ..... 200 cycles (2 %  $\Delta$ TR)

### Physical Characteristics

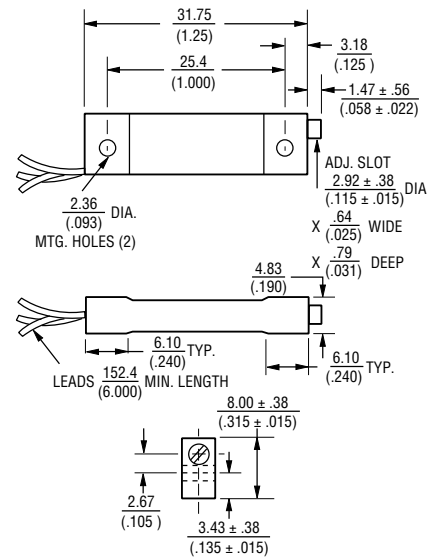
Torque ..... 8.0 oz-in. max.  
Mechanical Stops ..... Wiper idles  
Terminals ..... Solderable pins and lugs  
Flexible leads ..... (7 strands of 30 AWG)  
Weight ..... 0.10 oz.  
Marking ..... Manufacturer's trademark,  
resistance code, terminal numbers,  
date code, manufacturer's model  
number and style  
Wiper ..... 50 % (Actual TR)  $\pm 10\%$   
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



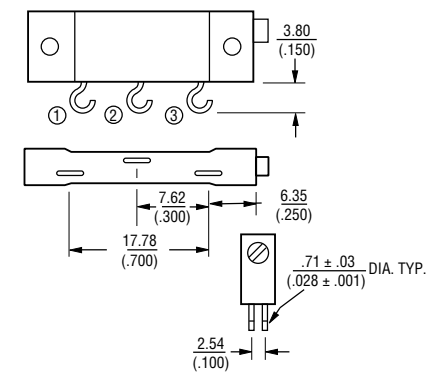
### Product Dimensions

#### 3057L

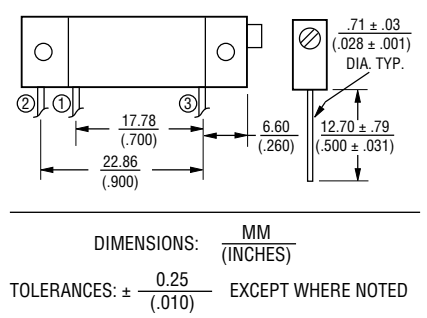
#### Common Dimensions



#### 3057J



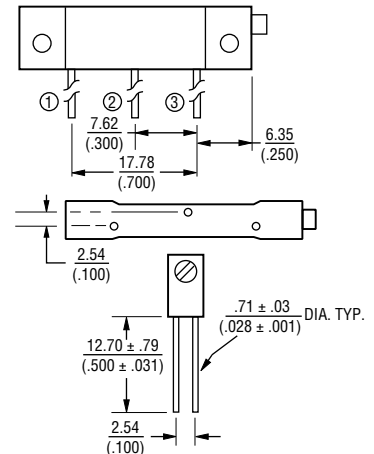
#### 3057P



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

TOLERANCES:  $\pm \frac{0.25}{(.010)}$  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
<b>100</b>	<b>101</b>	<b>1.00</b>
<b>200</b>	<b>201</b>	<b>0.86</b>
<b>500</b>	<b>501</b>	<b>0.89</b>
<b>1,000</b>	<b>102</b>	<b>0.72</b>
<b>2,000</b>	<b>202</b>	<b>0.58</b>
<b>5,000</b>	<b>502</b>	<b>0.43</b>
<b>10,000</b>	<b>103</b>	<b>0.34</b>
<b>20,000</b>	<b>203</b>	<b>0.31</b>
50,000	503	0.24

Popular values listed in boldface. Special resistances available.

### How To Order

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

REV. 04/14

\*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.

Users should verify actual device performance in their specific applications.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

# Mouser Electronics

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[3057J-1-503](#) [3057J-1-500](#) [3057J-1-501](#) [3057L-1-501](#) [3057J-1-502](#) [3057L-1-502](#) [3057L-1-500](#) [3057P-1-103](#) [3057P-](#)  
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