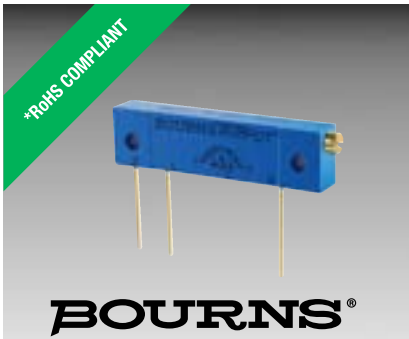




**THE DATASHEET OF**  
**3057Y-1-503**





## 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

Std. 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)  
Moisture Sensitivity Level ..... N/A  
ESD Classification (HBM) ..... 2

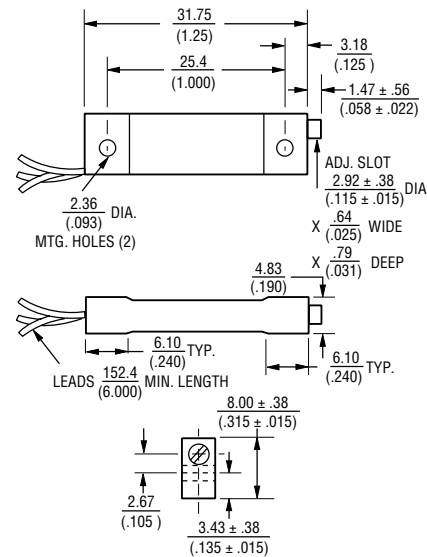
## Physical Characteristics

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 ..... 100 pcs. per box  
Adjustment Tool ..... H-90

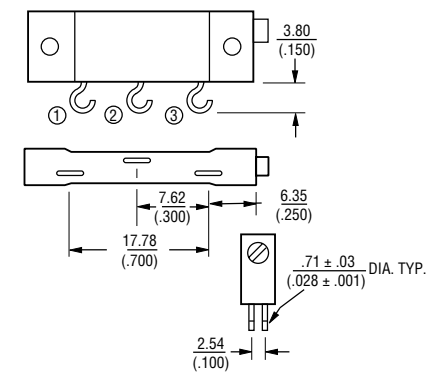
## Product Dimensions

### 3057L

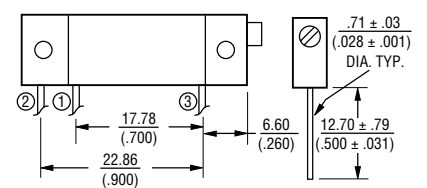
#### Common Dimensions



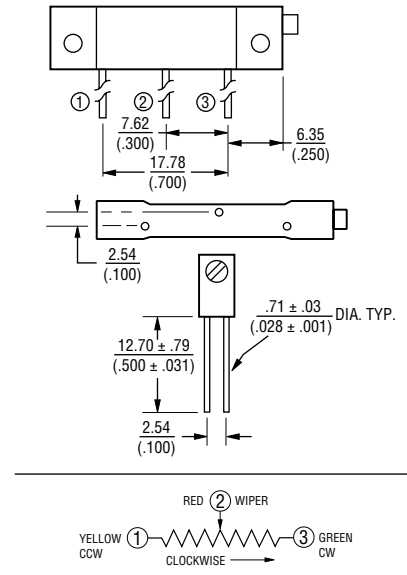
### 3057J



### 3057P



### 3057Y



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	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 Product Indicator -1  
Resistance Code 103  
Optional Suffix Letter M  
M = Panel Mount (Factory Installed)



**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\*RoHS Directive 2015/863, Mar. 31, 2015 and Annex  
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