



**THE DATASHEET OF**  
**3059Y-1-103MLF**





## Features

- 1-1/4" Rectangular / Multiturn Cermet / Industrial / Sealed
- [Panel mount option available](#)
- [Listed on the QPL](#) for style [RJ12](#) per MIL-PRF-22097
- RoHS compliant\* version available
- For trimmer applications/processing guidelines, [click here](#)

## Additional Information

Click these links for more information:



# 3059 – Trimpot® Trimming Potentiometer

### Electrical Characteristics

Std. Resistance Range.. 10 to 2 megohms (see standard resistance table)  
 Resistance Tolerance ..... ±10 % std. (tighter tolerance available)  
 Absolute Minimum Resistance ..... 1 % or 2 ohms max. (whichever is greater)  
 Contact Resistance Variation ..... 1.0 % or 1 ohm max. (whichever is greater)  
 Adjustability  
 Voltage ..... ±0.01 %  
 Resistance ..... ±0.05 %  
 Resolution..... Infinite  
 Insulation Resistance ..... 500 VDC  
 1,000 megohms min.  
 Dielectric Strength  
 Sea Level ..... 900 VAC  
 70,000 Feet ..... 350 VAC  
 Effective Travel ..... 22 turns nom.

### Environmental Characteristics

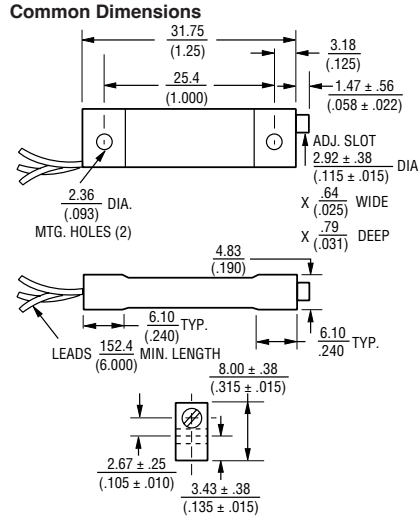
Power Rating @ 70 °C (400 volts max.) ..... 1.0 watt  
 Power Rating @ 150 °C ..... 0 watt  
 Temperature Range.....-55 °C to +150 °C  
 Temperature Coefficient .... ±100 ppm/°C  
 Seal Test..... 85 °C (pin styles only)  
 Humidity..... MIL-STD-202 Method 106 (2 % ΔTR, 10 Megohms IR)  
 Vibration ..... 20 G (1 % ΔTR; 1 % ΔVR)  
 Shock..... 50 G (1 % ΔTR; 1 % ΔVR)  
 Load Life. 1,000 hours 1.0 watt @ 70 °C ..... (3 % ΔTR; 1% or 1 ohms, whichever is greater, CRV)  
 Rotational Life..... 200 cycles (2 % ΔTR; 1 % or 1 ohm, whichever is greater, CRV)

### Physical Characteristics

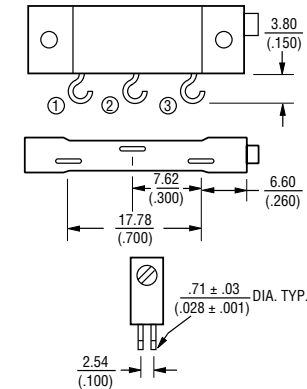
Torque..... 5.0 oz-in. max.  
 Mechanical Stops ..... Wiper idles  
 Terminals .Solderable printed circuit pins  
 Flexible leads ..... (7 strands of 30 AWG)  
 Weight ..... 0.1 oz.  
 Marking..... Manufacturer's trademark, resistance code, terminal numbers, date code, manufacturer's model number and style  
 Wiper ..... 50 % (Actual TR) ±10 %  
 Flammability ..... U.L. 94V-0  
 Standard Packaging  
 J, P & Y Styles..... 10 pcs. per tube  
 L Style ..... 100 pcs. per bag  
 Adjustment Tool ..... H-90

### Product Dimensions

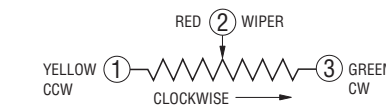
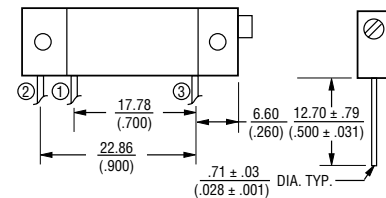
#### 3059L



#### 3059J



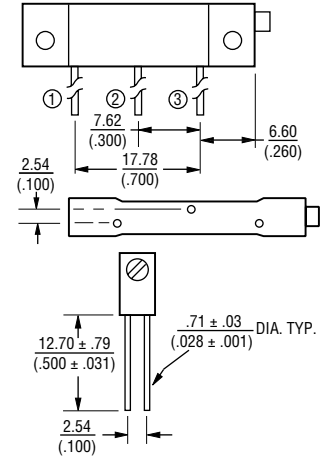
#### 3059P



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

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

#### 3059Y



### Standard Resistance Table

Resistance (Ohms)	Resistance Code
10	100
20	200
50	500
100	101
200	201
500	501
<b>1,000</b>	<b>102</b>
<b>2,000</b>	<b>202</b>
<b>5,000</b>	<b>502</b>
<b>10,000</b>	<b>103</b>
<b>20,000</b>	<b>203</b>
<b>25,000</b>	<b>253</b>
<b>50,000</b>	<b>503</b>
<b>100,000</b>	<b>104</b>
<b>200,000</b>	<b>204</b>
250,000	254
500,000	504
1,000,000	105
2,000,000	205

Popular distribution values listed in **boldface**.  
 Special resistances available.

### How To Order

**3059 L - 1 - 103 M LF**

Model \_\_\_\_\_  
 Style \_\_\_\_\_  
 Standard or Modified Product Indicator \_\_\_\_\_  
 -1 = Standard Product  
 Resistance Code \_\_\_\_\_  
 Optional Suffix Letter \_\_\_\_\_  
 M = Panel Mount (Factory Installed)  
 Terminations \_\_\_\_\_  
 LF = 100 % Tin-plated (RoHS compliant)  
 Blank = 90 % Tin / 10 % Lead-plated (Standard)



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

REV. 07/25

\*RoHS Directive 2015/863, Mar. 31, 2015 and Annex "Trimpot" is a trademark of Bourns, Inc.

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