



## 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](#)

## 3059 - Trimpot® Trimming Potentiometer

### Electrical Characteristics

Std. Resistance Range...10 to 2 megohms  
(see standard resistance table)  
Resistance Tolerance .....  $\pm 10\%$  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 .....  $\pm 0.01\%$   
Resistance .....  $\pm 0.05\%$   
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 ...  $\pm 100$  ppm/°C  
Seal Test ..... 85 °C Fluorinert†  
(pin styles only)  
Humidity ..... MIL-STD-202 Method 106  
(2 %  $\Delta$ TR, 10 Megohms IR)  
Vibration ..... 20 G (1 %  $\Delta$ TR; 1 %  $\Delta$ VR)  
Shock ..... 50 G (1 %  $\Delta$ TR; 1 %  $\Delta$ VR)  
Load Life, 1,000 hours 1.0 watt @ 70 °C  
..... (3 %  $\Delta$ TR; 1 % or 1 ohms,  
whichever is greater, CRV)  
Rotational Life ..... 200 cycles  
(2 %  $\Delta$ TR; 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)  $\pm 10\%$   
Flammability ..... U.L. 94V-0  
Standard Packaging  
P&Y Styles ..... 10 pcs. per tube  
L&J Styles ..... 25 pcs. per bag  
Adjustment Tool ..... H-90

REV. 04/14

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

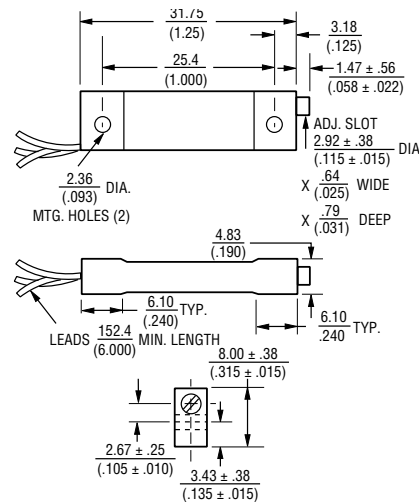
†"Fluorinert" is a registered trademark of 3M Co.

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.

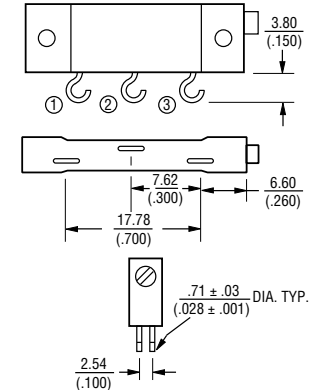
### Product Dimensions

#### 3059L

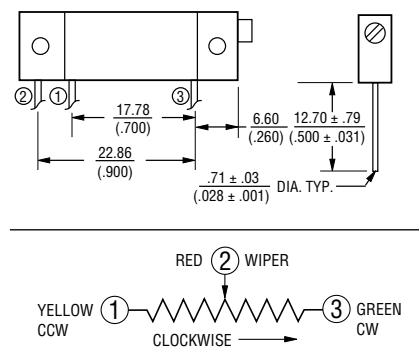
##### Common Dimensions



#### 3059J

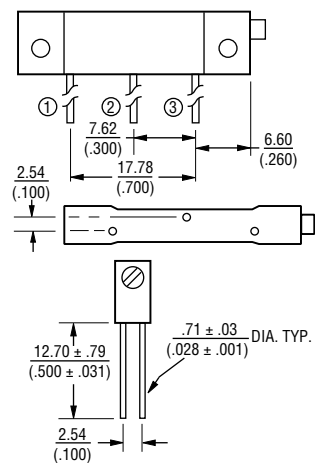


#### 3059P



DIMENSIONS: MM (INCHES)  
TOLERANCES:  $\pm 0.25$  (0.010) 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

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

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)