



**BOURNS®**

## 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 % 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) $\pm 10\%$
Flammability	UL. 94V-0
Standard Packaging	
P&Y Styles	10 pcs. per tube
L&J Styles	25 pcs. per bag
Adjustment Tool	H-90



### WARNING

#### Cancer and Reproductive Harm

[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

"Trimpot" is a registered trademark of Bourns, Inc.

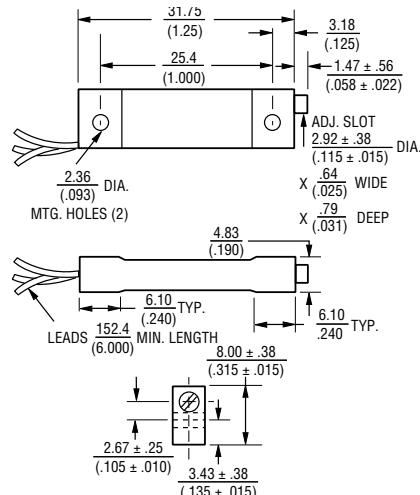
†"Fluorinert" is a registered trademark of 3M Co.

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf).

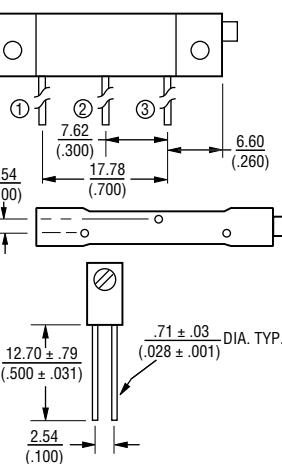
### Product Dimensions

3059L

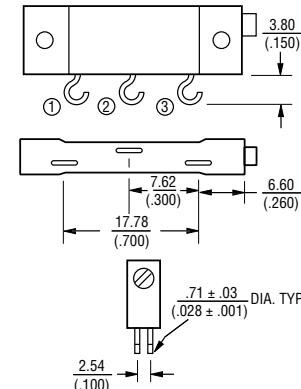
#### Common Dimensions



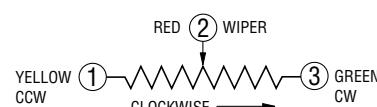
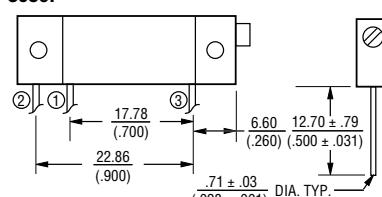
3059Y



3059J



3059P



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

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

### 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>
2,000	202
5,000	502
<b>10,000</b>	<b>103</b>
20,000	203
25,000	253
50,000	503
100,000	104
<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)

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