

## Features

- 1-1/4" Rectangular / Multiturn  
Cermet / Industrial / Sealed
- Panel mount option available
- Listed on the QPL for style RJ12 per MIL-PRF-22097

# 3059 - Trimpot® Trimming Potentiometer

### Electrical Characteristics

Standard 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 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) ±10 %

Flammability ..... U.L. 94V-0

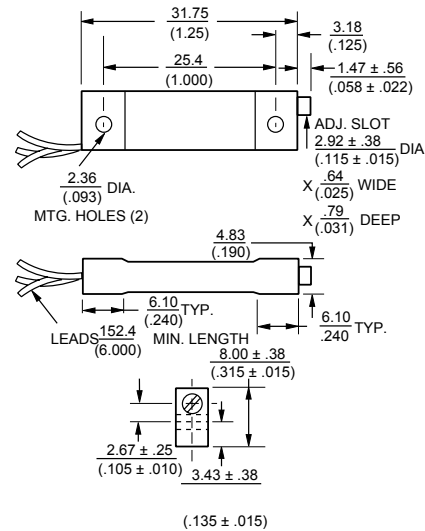
Standard Packaging  
P&Y Styles ..... 10 pcs. per tube  
L&J Styles ..... 25 pcs. per bag

Adjustment Tool ..... H-90

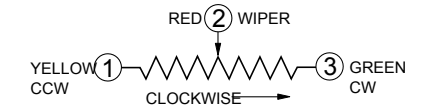
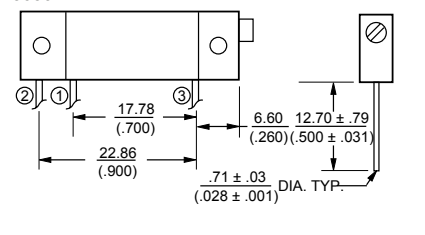
### Product Dimensions

3059L

Common Dimensions



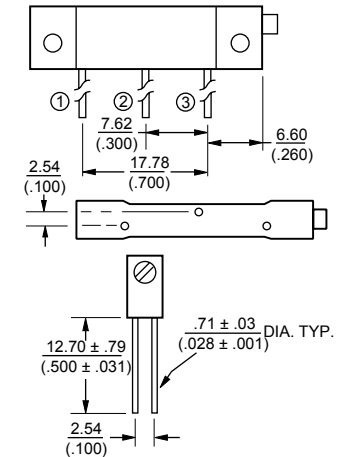
3059P



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

DIMENSIONS ARE: MM  
(INCHES)

3059Y



### Standard Resistance Table

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

Popular 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)