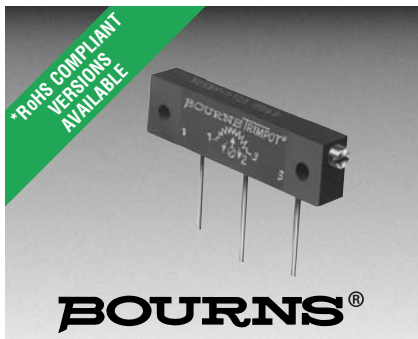




Features

- 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

3059 - Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range10 to 2 megohms
(see standard resistance table)
Resistance Tolerance±10 % std.
(tighter tolerance available)
Absolute Minimum Resistance1 % or 2 ohms max.
(whichever is greater)
Contact Resistance Variation1.0 % or 1 ohm max.
(whichever is greater)
Adjustability
Voltage±0.01 %
Resistance±0.05 %
ResolutionInfinite
Insulation Resistance500 vdc.
1,000 megohms min.
Dielectric Strength
Sea Level900 vac
70,000 Feet350 vac
Effective Travel22 turns nom.

Environmental Characteristics

Power Rating @ 70 °C (400 volts max.)1.0 watt
Power Rating @ 150 °C0 watt
Temperature Range-55 °C to +150 °C
Temperature Coefficient±100 ppm/°C
Seal Test85 °C Fluorinert†
(pin styles only)
HumidityMIL-STD-202 Method 106
(2 % ΔTR, 10 Megohms IR)
Vibration20 G (1 % ΔTR; 1 % ΔVR)
Shock50 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 Life200 cycles
(2 % ΔTR; 1 % or 1 ohm, whichever is greater, CRV)

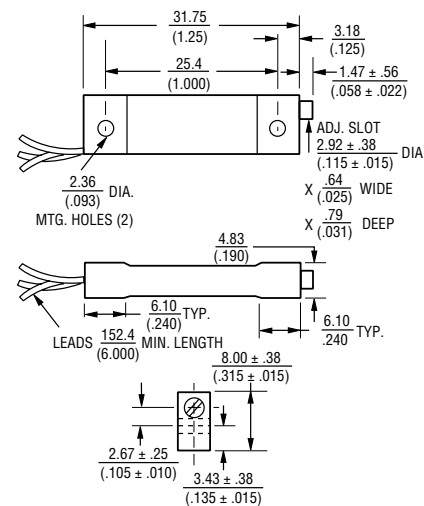
Physical Characteristics

Torque5.0 oz-in. max.
Mechanical StopsWiper idles
TerminalsSolderable printed circuit pins
Flexible leads(7 strands of 30 AWG)
Weight0.1 oz.
MarkingManufacturer's trademark,
resistance code, terminal
numbers, date code, manufacturer's
model number and style
Wiper50 % (Actual TR) ±10 %
FlammabilityU.L. 94V-0
Standard Packaging
P&Y Styles10 pcs. per tube
L&J Styles25 pcs. per bag
Adjustment ToolH-90

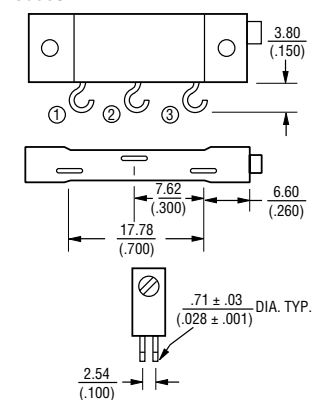
Product Dimensions

3059L

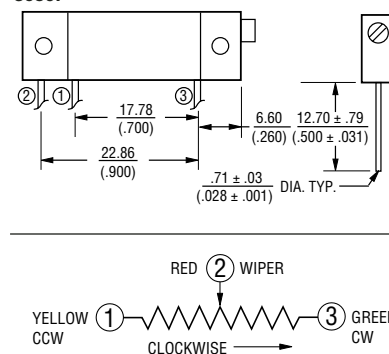
Common Dimensions



3059J



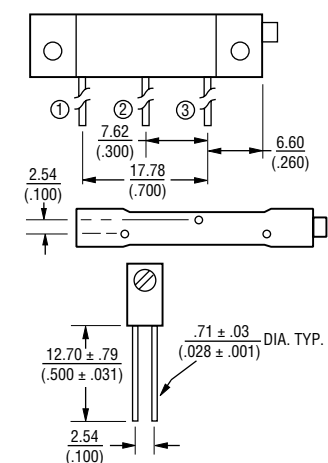
3059P



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

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

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)

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

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

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.