

Features

- Multiturn / Cermet / Industrial / Sealed
- Low temperature coefficient: ± 100 ppm/ $^{\circ}\text{C}$
- Stable, infinite resolution cermet element
- CRV 1.0 % or 1 ohm
- [Panel mount option available](#)
- RoHS compliant* version available

■ For trimmer applications/processing guidelines, [click here](#)

3009 - 3/4" Rectangular Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range 10 to 2 megohms
 (see standard resistance table)
 Resistance Tolerance $\pm 10\%$ std.
 (tighter tolerance available)
 Absolute Minimum Resistance 1.0 % 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
 100 megohms min.
 Dielectric Strength
 Sea Level 1,000 vac
 80,000 Feet 250 vac
 Adjustment Angle 15 turns nom.

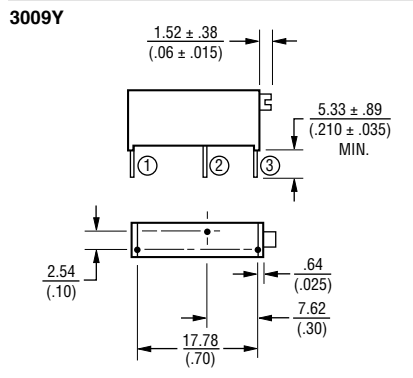
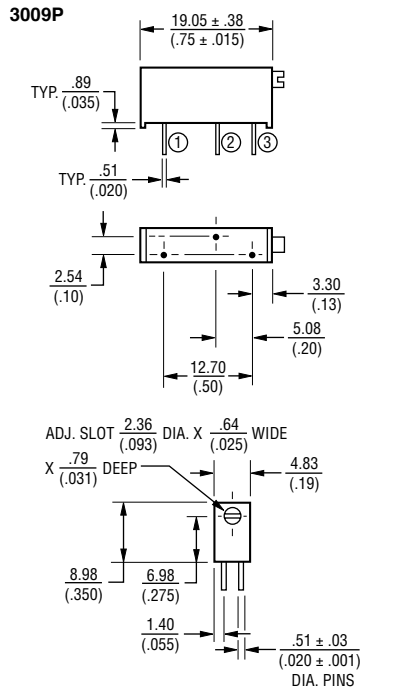
Environmental Characteristics

Power Rating (400 volts max.)
 70 $^{\circ}\text{C}$ 0.75 watt
 150 $^{\circ}\text{C}$ 0 watt
 Temperature Range -55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$
 Temperature Coefficient ± 100 ppm/ $^{\circ}\text{C}$
 Seal Test 85 $^{\circ}\text{C}$ Fluorinert†
 Humidity MIL-STD-202 Method 103
 96 hours
 (3 % ΔTR , 20 megohms IR)
 Vibration 20 G (2 % ΔTR ; 2 % ΔVR)
 Shock 50 G (2 % ΔTR ; 2 % ΔVR)
 Load Life 1,000 hours, 0.75 watt @ 70 $^{\circ}\text{C}$
 (4 % ΔTR)
 Rotational Life 200 cycles
 (3 % ΔTR ; 1 % or 1 ohm,
 whichever is greater, CRV)

Physical Characteristics

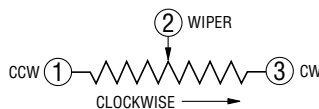
Torque 5.0 oz-in. max.
 Mechanical Stops Wiper idles
 Terminals Solderable pins
 Weight 0.05 oz.
 Marking Manufacturer's
 trademark, resistance code,
 terminal numbers, date code,
 manufacturer's model number
 and style
 Standard Packaging 25 pcs. per tube

Product Dimensions



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

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



Standard Resistance Table

Resistance (Ohms)	Resistance Code
10	100
20	200
50	500
100	101
200	201
500	501
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

How To Order

3009 P - 1 - 103 Z LF

Model _____
 Style _____
 Standard or Modified
 Product Indicator _____
 -1 = Standard Product
 -11 = 5 % Resistance Tolerance
 Resistance Code _____
 Optional Suffix Letter _____
 Z = Panel Mount (Factory Installed)
 Terminations _____
 LF = 100 % Tin-plated (RoHS compliant)
 Blank = 90 % Tin / 10 % Lead-plated
 (Standard)
 Consult factory for other available options.

REV. 08/19

*RoHS Directive 2015/863, Mar. 31, 2015 and Annex

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

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