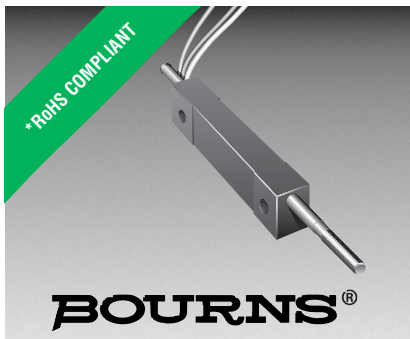




Features

- Compact
- Lightweight
- Long life
- Infinite resolution
- Free shaft rotation
- AC or DC
- Shaft options available
- Flexible wire leads
- Economical
- RoHS compliant*

3048 Linear Motion Potentiometer

Specifications†

Standard Electrical Travel

..... 0.2, 0.3, 0.4, 0.5 in.
(5.08, 7.62, 10.16, 12.70 mm)

Standard Resistances

..... 1K ohms to 50K ohms ($\pm 20\%$)

Independent Linearity $\pm 5\%$

Resolution Infinite

Power Rating @ 70 °C (158 °F)

Range 2, 3 0.12 watt

Range 4, 5 0.25 watt

Operating Temperature Range

..... -55 °C to +125 °C

Temperature Coefficient ... 1000 PPM/°C

Insulation Resistance 50 megohms

@ 500 VDC

Backlash Negligible

Shaft Actuating Force 4 oz. max.

@ 70 °F

Life 500,000 cycles

Shock 50 G for 7 msec

Vibration 20 G, 10-2 kHz

Marking Manufacturer's trademark,

resistance code, wiring diagram,

date code, manufacturer's model

number and style

Specifications are typical. Contact factory for special requirements.

† Specifications applicable from 5 % to 95 % of electrical travel.

How to Order

3048 L - 2 - 502

Model

Style

Range (Travel)

2 = 0.2" (5.08 mm)

3 = 0.3" (7.62 mm)

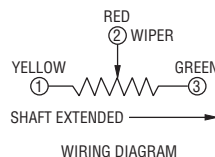
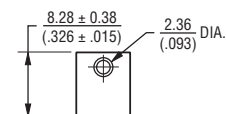
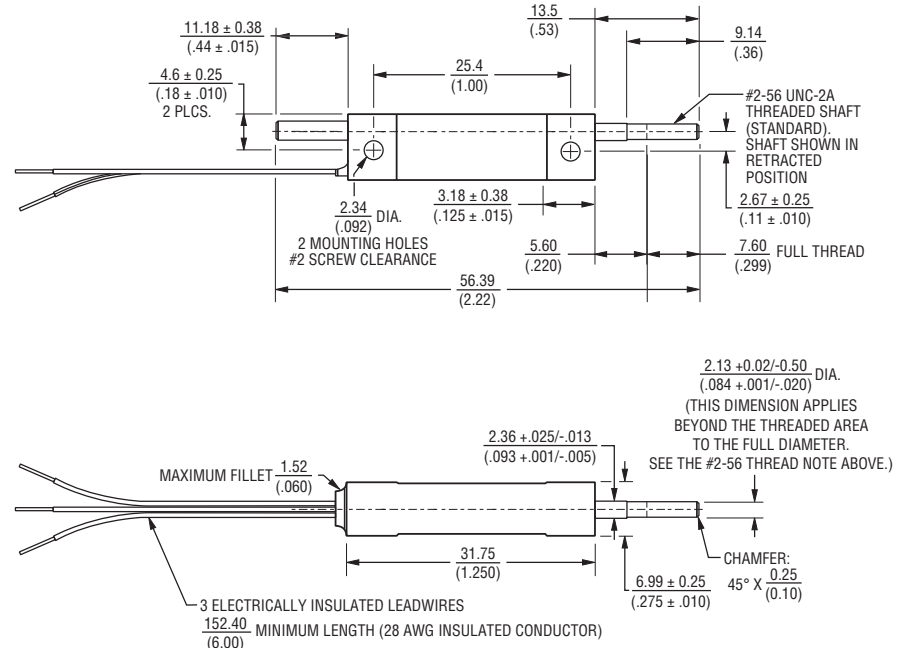
4 = 0.4" (10.16 mm)

5 = 0.5" (12.70 mm)

Resistance Value

Stainless steel shaft is available upon request.

Product Dimensions



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

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

Standard Resistance Table

Resistance (Ohms)	Resistance Code
1,000	102
2,500	252
5,000	502
10,000	103
20,000	203
50,000	503

REV. 01/13

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

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.

Mouser Electronics

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Bourns:

[3048L-3-503](#) [3048L-3-502](#) [3048L-5-502](#) [3048L-5-503](#) [3048L-3-203](#) [3048L-4-103](#) [3048L-4-102](#) [3048L-4-502](#)
[3048L-4-503](#) [3048L-2-103](#) [3048L-2-102](#) [3048L-3-102](#) [3048L-3-103](#) [3048L-4-203](#) [3048L-2-252](#) [3048L-2-203](#) [3048L-](#)
[5-252](#) [3048L-5-203](#) [3048L-4-252](#) [3048L-3-252](#) [3048L-2-503](#) [3048L-2-502](#) [3048L-5-103](#) [3048L-5-102](#)