

MR46 Multi-Turn Wirewound Potentiometer



For more information about this product, visit our website at: www.potentiometers.com



**Series MR46 potentiometers feature
3, 5, 10, 15, 20, 25 & 30-Turn Wirewound elements.
Available with Bushing Mount or Servo Mount.**

Features

- Wirewound Resistive Element
- 3, 5, 10, 15, 20, 25, 30 turn models
- Aluminum Anodized Housing
- Stainless steel shaft, brass bushing
- Silver plated terminals
- Bushing bearings

Optional Features:

- Servo mount, Limit Switches,
- O-Ring Shaft Seal, Sealed Body

Electrical Specifications

Resistance Range:

.5 ohm to 300K ohms standard

Resistance Tolerance: $\pm 5\%$

Independent Linearity:

3 Turn: $\pm 0.5\%$

5 Turn: $\pm 0.3\%$

10, 15, 20, 25, 30 Turn: $\pm 0.25\%$

Power Rating @ 40°C:

3 Turn: 2 watts 20 Turn: 10 watts

5 Turn: 2.5 watts 25 Turn: 12 watts

10 Turn: 5 watts 30 Turn: 15 watts

15 Turn: 7.5 watts

Insulation Resistance:

100 Megohms@1000VDC

Dielectric Strength: 1,000 VAC

Mechanical Specifications

Mechanical Rotation (Tolerance $+10^{\circ}-0^{\circ}$):

3 Turn: 1,080° 20 Turn: 7,200°

5 Turn: 1,800° 25 Turn: 9,000°

10 Turn: 3,600° 30 Turn: 10,800°

15 Turn: 5,400°

Rotational Torque: 2.8 oz. in. Max

Rotational Life:

3 Turn: 600,000 Turns

5 Turn: 1,000,000 Turns

10, 15, 20, 25, 30 Turn: 2,000,000 Turns

Environmental Specifications

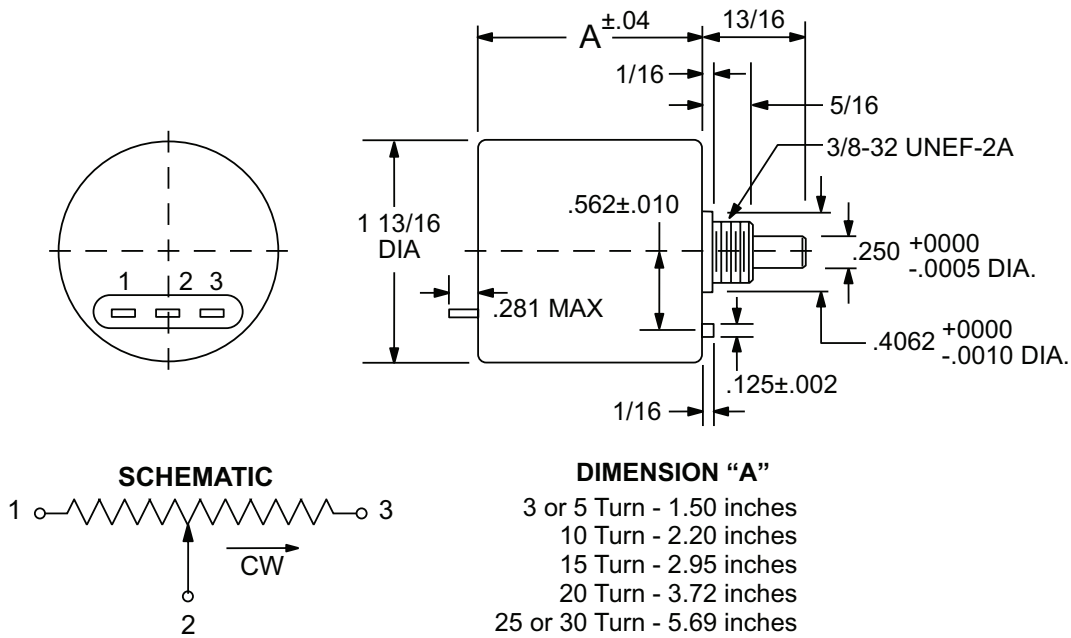
Operating Temperature: -55°C to $+105^{\circ}\text{C}$

Vibration: 10HZ to 2000HZ, 15G

Shock: 50G, 11ms

Moisture Resistance: 40°C 95%RH, 120 Hours

MR46 Multi-Turn Wirewound Potentiometer



Ordering Information

Example Part Number: **MR46B-10-10K**

MR46	B	10	10K	SS
Model	Mount	Turns	Resistance	Option
MR46	B = Bushing S = Servo	3 = 3 Turns 5 = 5 Turns 10 = 10 Turns 15 = 15 Turns 20 = 20 Turns 25 = 25 Turns 30 = 30 Turns	10 = 10 ohms 20 = 20 ohms 50 = 50 ohms 100 = 100 ohms 200 = 200 ohms 500 = 500 ohms 1K = 1K ohms 2K = 2K ohms 5K = 5K ohms 10K = 10K ohms 20K = 20K ohms 50K = 50K ohms 100K = 100K ohms 200K = 200K ohms 300K = 300K ohms 1meg = 1 Megohm	SS = O-Ring Shaft Seal SB = Sealed Body LS = Limit Switches

Note:
Maximum Resistance Values:
 3, 5 turn - Max. 100K
 15 turn - Max. 200K
 10 turn - Max. 500K
 20, 25, 30 turn - Max. 1 Meg

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