

Series RA10

Wirewound Mil-Spec Potentiometer - 1.5 Watt



Description

Series RA10

3/4 in. dia., 1 1/2 watt miniaturized potentiometer.

Features

- Nickel plated brass shaft and bushings
- 1 1/2 Watt Wirewound element

Options

- Locking style bushing

Also Available...

Series WW54

Commercial equivalent of the Series RA10 with many available options: shaft & mounting seals; multiple elements: concentric shafts; PC terminals; stainless steel shaft.

Series RA10 Electrical Specifications

Resistance Range

15 Ω to 2.5KΩ. Linear taper

Resistance Tolerance

+/- 10%

Power Rating

Single section: 1.5 Watts @ 40°C; 0 @ 125°C

Additional sections: 3 Watts @40°C; 0 @ 105°C

Watts/Degree

.005 W per degree of effective rotation max.

Effective Rotation

300° +/- 5° standard

Electrical Rotation

300° +/- 5° with or without switch

End Resistance

1 to 15Ω - 5% total resistance

Over 15Ω - 3% total resistance

Dielectric Withstanding Voltage

1000 Vac for 60 seconds @ ATM.

450 Vac for 60 seconds @ 3.44 in. Hg.

Working Voltage (Max.)

175 Vdc maximum

Insulation Resistance

100 Megohms minimum

Operating Temperature Range

-55 °C to 125 °C

Mechanical Specifications on next page

Series WW54 Mechanical Specifications

Mechanical Rotation

300° +/- 5°

Torque Range

0.3 to 6 oz in.each section;

Locking type bushing: 20 oz. in. minimum with jam nut tightened to 8 lb. in.

Stop Torque

3 lbs. in. maximum

Rotational Life

Per MIL-R-19 requirements

Figure 1. Power Derating Graph for Series RA10

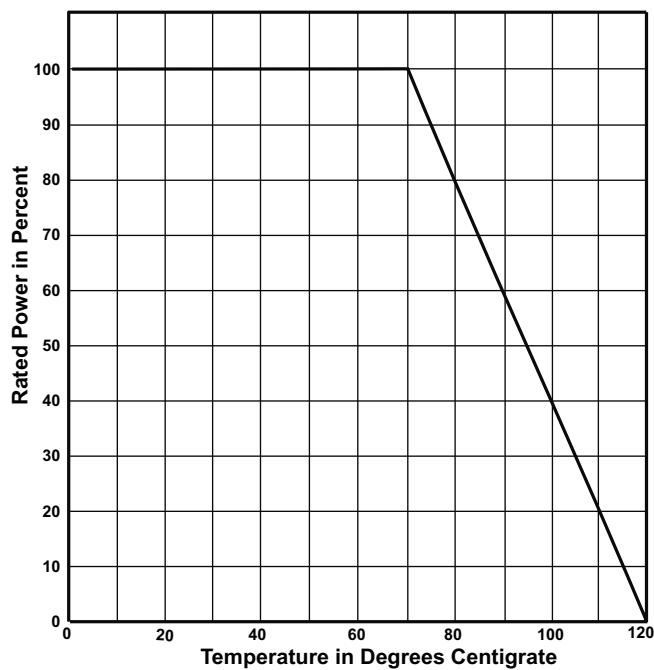
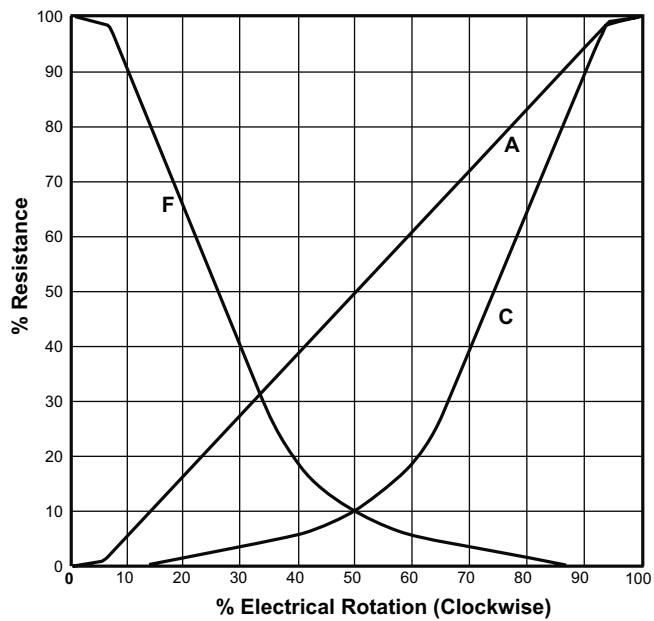
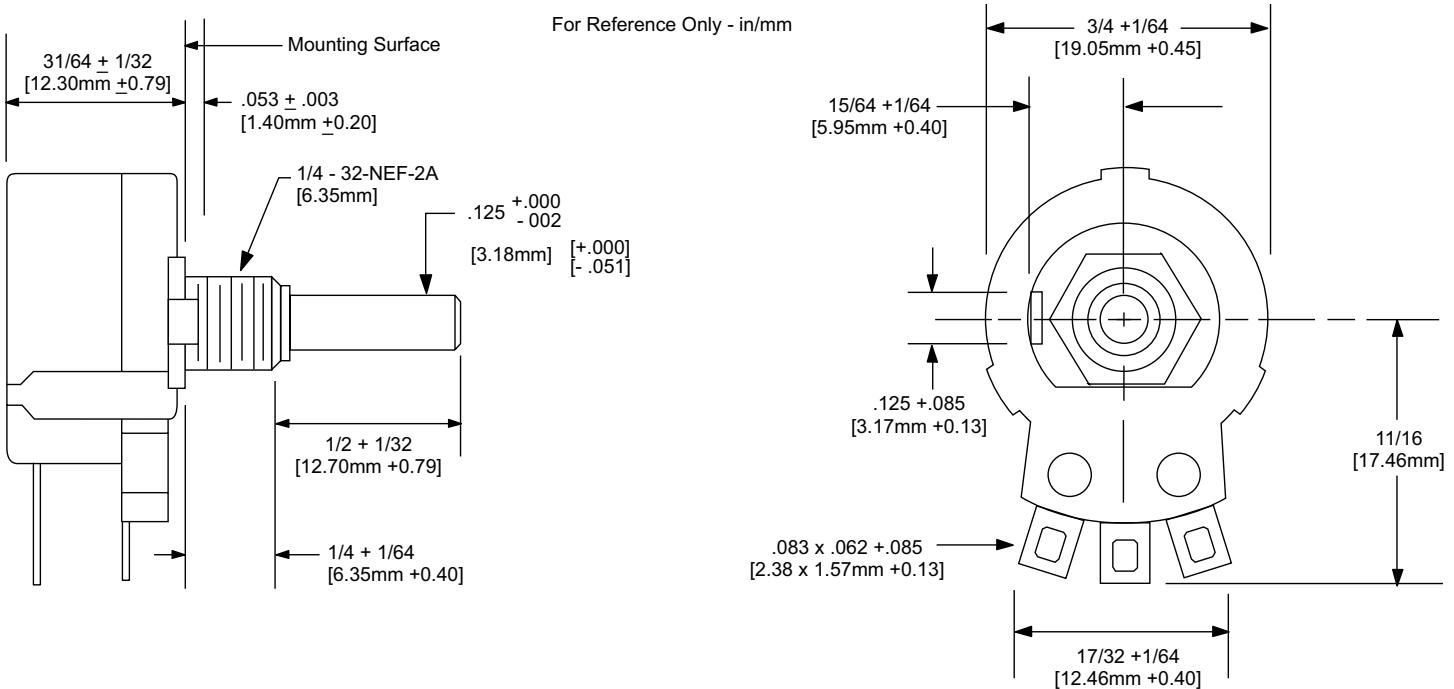
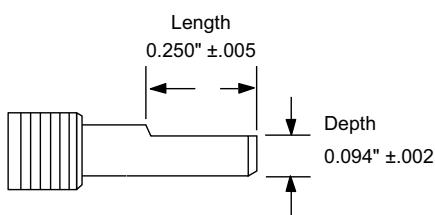


Figure 2. Linearity Graph for Series RA10





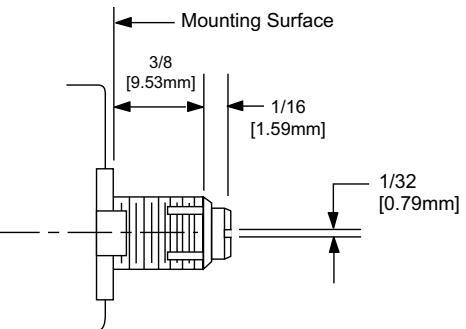
Flattened Shaft Option



Note:

Flattened Shaft is not available if Locking Option is selected.

Locking Bushing Option



Series RA10 - How to Order

Part Number Example: **RA10-N-A-S-M-102A**

RA10	N	A	S	M	102	A
Series	Shaft/Bushing	Switch	Shaft Style	Shaft Length	Resistance	Linearity
N = Standard L = Locking	A = None	S = Slotted	L = 5/16" * D = 7/8" * * Standard Bushing	15 Ω to 2.5KΩ	A = Linear	
			M = 7/16" ** ** Locking Bushing			

