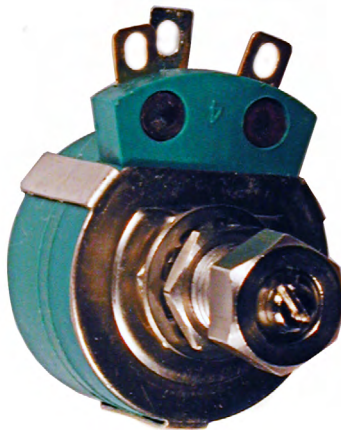


## Series RA10

### Wirewound Mil-Spec Potentiometer - 1.5 Watt



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#### 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  $\Omega$  to 2.5K $\Omega$ . 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 15 $\Omega$  - 5% total resistance

Over 15 $\Omega$  - 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

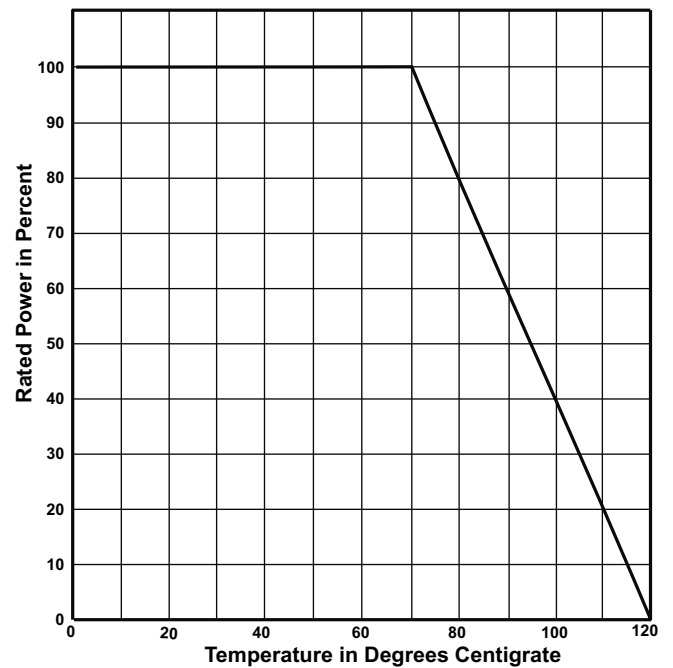
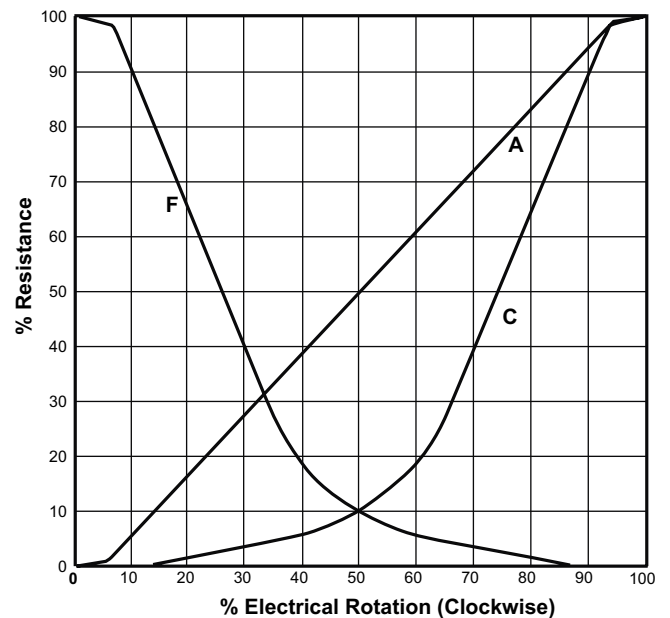
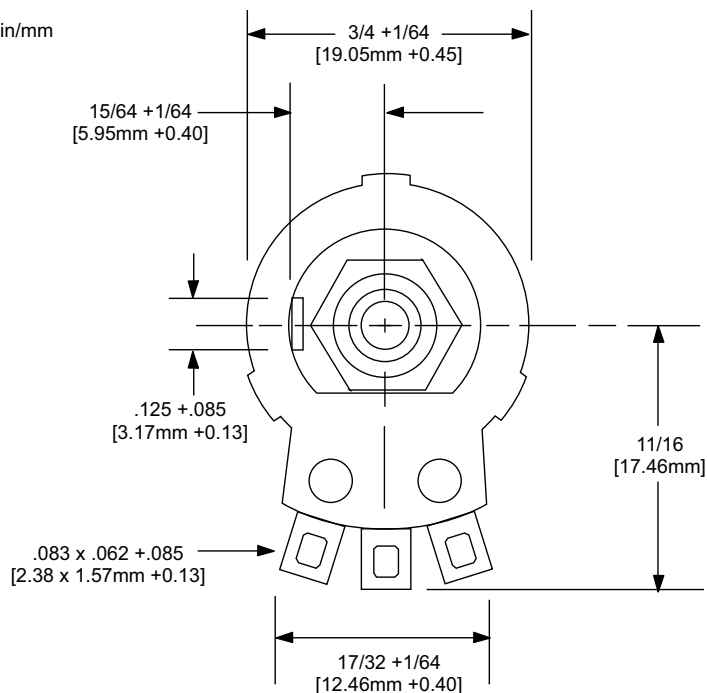
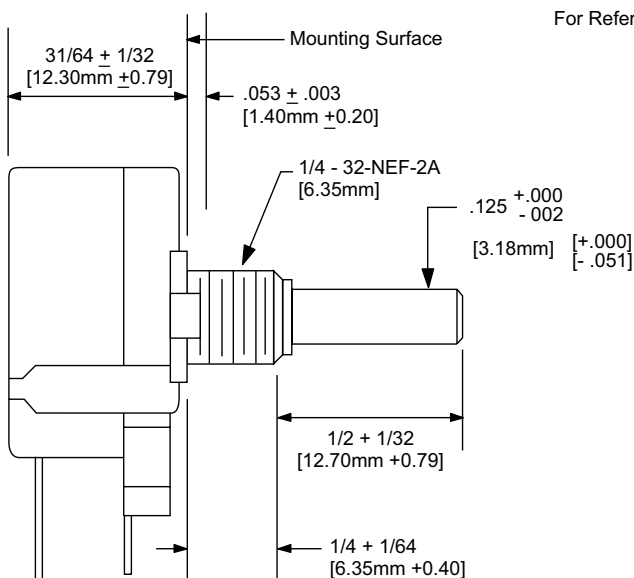
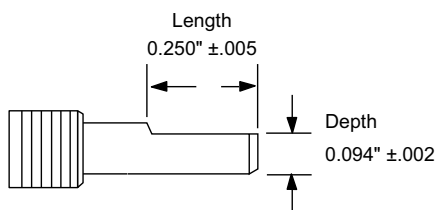


Figure 2. Linearity Graph for Series RA10



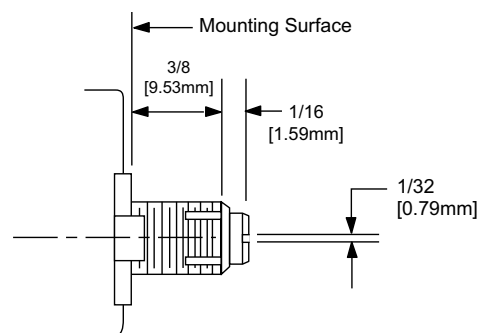


### Flatted Shaft Option



**Note:**  
Flatted 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 M = 7/16" ** ** Locking Bushing	15 Ω to 2.5KΩ	A = Linear

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