

#### **PRODUCT SPECIFICATION**

# **Series RV6 Military**

Precision series RV6 potentiometers are suitable for both military and commercial applications.

RoHS and REACH Complaint and contain no Conflict minerals.

These Products meet Military Specifications, Custom made parts available on request.



## **Electrical Specification**

Resistance tolerance: ±10% or ±20%

Power rating: 0.5 watts at 70°C derated to 0 watts at 120°C

Insulation resistance:

dry:  $10K \text{ Meg}\Omega$ 

wet: 100K  $Meg\Omega$ 

Dielectric strength: 750 V RMS at sea level

Operating voltage: 350 V, subject to power rating

This product is non-electrostatic discharge sensitive (non-ESD)

#### Table RV61

Designation	Flat Bushing N&S	Slotted Bushing N&S	Slotted Bushing L	
А		0.625	0.625	
В		0.5		
D	0.875	0.875	0.875	
1		0.775		

# **RV6 Resistance Available in Ohms**

•		
100	5 000	250 000
200	10 000	500 000
250	20 000	1 000 000
500	25 000	2 000 000
1 000	50 000	2 500 000
2 000	100 000	5 000 000
2 500	200 000	

# **Mechanical Specification**

Mechanical rotation:295°

Operating torque: 0.5 oz/in to 6 oz/in

Rotational life: 25,000 cycles **Electrical Rotation: 270** 

### **Environmental Specification**

Operating temperature: -65°C to +125°C

Resistance to soldering heat: 350°C for 5 seconds

Humidity range: per MIL-R-94 Vibration range: per MIL-R-94 Shock resistance: per MIL-R-94 Load life: 1000 hours at 70°C

#### **Features**



hot molded carbon element



gold-plated terminals



stainless-steel shaft and housing



quality meeting or exceeding MIL-R-94 - QPL listed



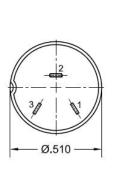
#### PRODUCT DRAWINGS

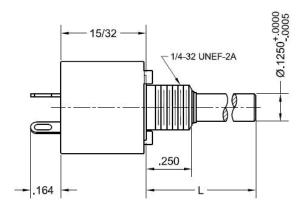
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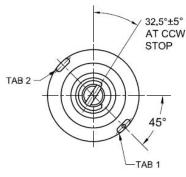
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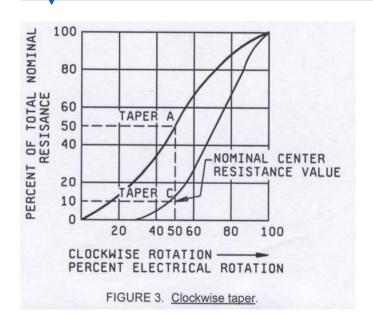
## **Standard Bushing**

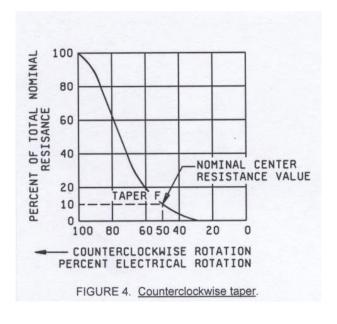






## **Percent Of Total Nominal Resistance**





### **Ordering Information - Military Part Numbers**

Style	Bushing	Switch	Temperature and moisture characteristics	Shaft Style	Shaft Length	Resitance Value	Taper and tolerance	
RV6 = MIL styleRV6	N = standard	<b>A</b> = without switch	<b>Y</b> = as per MIL-R-94	<b>S</b> = slotted	<b>A</b> = 5/8"	total resistance	A = linear 10%	
	L = locking			<b>F</b> = flatted	B = 1/2" D = 7/8" L = 3/8" see table RV61 for	value in Ω: first two digits significant, third digit = number of zeroes	<b>B</b> = linear 20%	
	S = panel & shaft seal	seal					C = logarithmic 10%	
							<b>D</b> = logarithmic 20%	
					possibilities	Se RV resistance	E = reverse	
						available	logarithmic 10%	
							F = reverse	
Example: RV6NAYSB000A								

**note:** not all part number combinations are valid