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# RV4NAYSD502A

ETI Systems

Potentiometers 5K ohm 10% 28.45mm

Any questions, please feel free to contact us.  
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## Precision Series K - 2 Watt 1/4" shaft diameter



Precision series K/RV4 potentiometers are suitable for both military and commercial applications. They can easily be customized to meet special requirements.

### **FEATURES:**

- hot molded carbon element
- gold-plated terminals
- stainless-steel shaft and housing
- quality meeting or exceeding MIL-R-94 - QPL listed

### **OPTIONS:**

- custom shafts and bushings
- special tapers
- fourth (center) terminal
- high life
- attached switch

### **ELECTRICAL SPECIFICATIONS:**

**Resistance range, linear taper:** 50  $\Omega$  to 5 Meg  $\Omega$

**Resistance range, logarithmic taper:** 150  $\Omega$  to 1 Meg  $\Omega$

**Resistance tolerance:**  $\pm 10\%$  or  $\pm 20\%$

**Resistance taper:** linear, logarithmic, reverse logarithmic;  
other tapers by special order

**Power rating:** 2 watts at 70°C derated to 0 watts at 120°C

**Insulation resistance:**

**dry:** 10K Meg  $\Omega$

**wet:** 100K Meg  $\Omega$

**Dielectric strength:** 900 V RMS at sea level

**Operating voltage:** 500 V, subject to power rating

### **ENVIRONMENTAL SPECIFICATIONS:**

**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

### **MECHANICAL SPECIFICATIONS:**

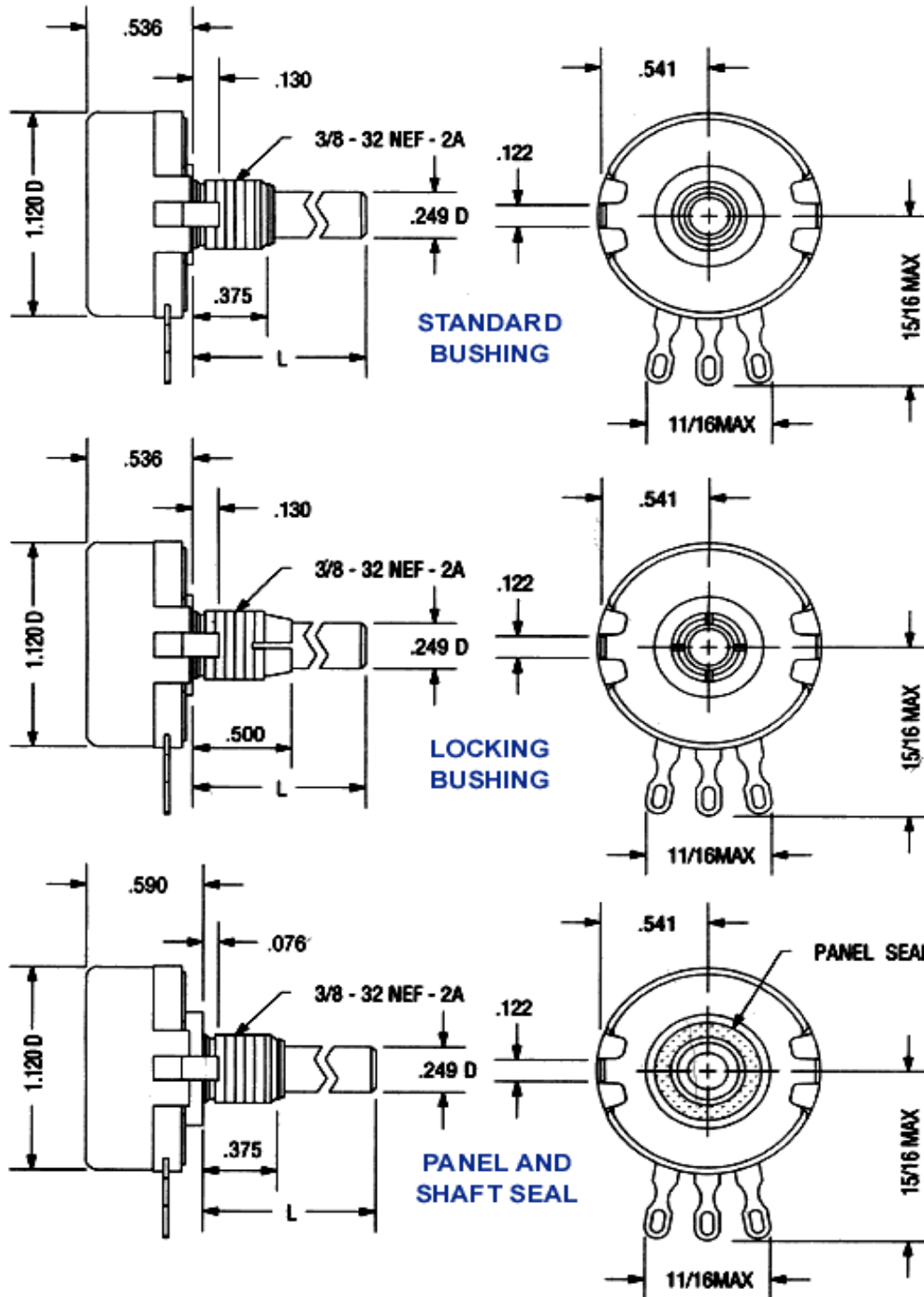
**Mechanical rotation:** 314°

**Operating torque:** 1 oz/in to 6 oz/in

**Rotational life:** 25,000 cycles



**DRAWING:**





**ORDERING INFORMATION:**

Ordering Information - Commercial Part Numbers							
Series	Bushing	Switch	Taper	Resistance Value	Tolerance	Shaft Style	Shaft Length
K = series K	Blank = standard  L = locking  W = panel & shaft steel	Blank = without switch  S = SPST switch	U = linear  A = logarithmic B = reverse logarithmic	Total resistance value in $\Omega$ : first 2 digits significant, third digit = number of zeroes	1 = 10% of nominal  2 = 20% of nominal	R = round S = slotted F = flatted	16 = 1/2" 20 = 5/8" 24 = 3/4"  28 = 7/8" 32 = 1" 40 = 1 1/4" 48 = 1 1/2" 64 = 2" 80 = 2 1/2" 96 = 3"
<b>Example: KSU1031R16</b> <b>note:</b> not all part number combinations are valid							

Ordering Information - Military Part Numbers							
Style	Bushing	Switch	Temperature & Moisture Characteristics	Shaft Style	Shaft Length	Resistance Value	Taper & Tolerance
RV4 = MIL style RV4	N = standard L = locking S = panel & shaft steel	A = without switch B = SPST switch	Y = as per MIL-R-94	S = slotted F = flatted	B = 1/2" A = 5/8" D = 7/8" G = 1 1/4" J = 2" K = 2 1/2"	Total resistance value in $\Omega$ : first 2 digits significant, third digit = number of zeroes	A = linear 10% B = linear 20% C = logarithmic 10% D = logarithmic 20% E = reverse logarithmic 10% F = reverse logarithmic 20%
<b>Example: RV4NAYSB000A</b> <b>note:</b> not all part number combinations are valid							

Type K Cross Reference				
Precision	Military	Clarostat	Allen Bradley	Ohmite
KU S28	RV4NAYSD A	380C3 / 53C3	JA1N056S UA	CMU
KLU S20	RV4LAYS A	280C2 / 53C2	JA1L040S UC	CLU
KU S16	RV4NAYSB A	N/A	JA1N032S UA	N/A
KU S64	RV4NAYSJ A	N/A	JA1N200S UA	CU
KU R64	N/A	380C1 / 53C1	JA1N200P UA	N/A
KU S80	RV4NAYSK A	N/A	JA1N232S UA	N/A
KA R64	N/A	53C1Z	JA1N200P AA	N/A
KLU S28	RV4LAYS D A	N/A	JA1L056S UA	N/A