



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 Ω to 5 Meg Ω

Resistance range, logarithmic taper: 150 Ω to 1 Meg Ω

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 Ω

wet: 100K Meg Ω

Dielectric strength: 900 V RMS at sea level

Operating voltage: 500 V, subject to power rating

MECHANICAL SPECIFICATIONS:

Mechanical rotation: 314°

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

Rotational life: 25,000 cycles

ENVIRONMENTAL SPECIFICATIONS:

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

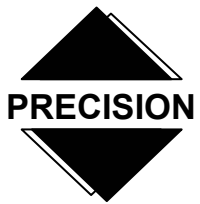
Resistance to soldering heat: 350°C for 5 seconds

Humidity range: per MIL-R-94

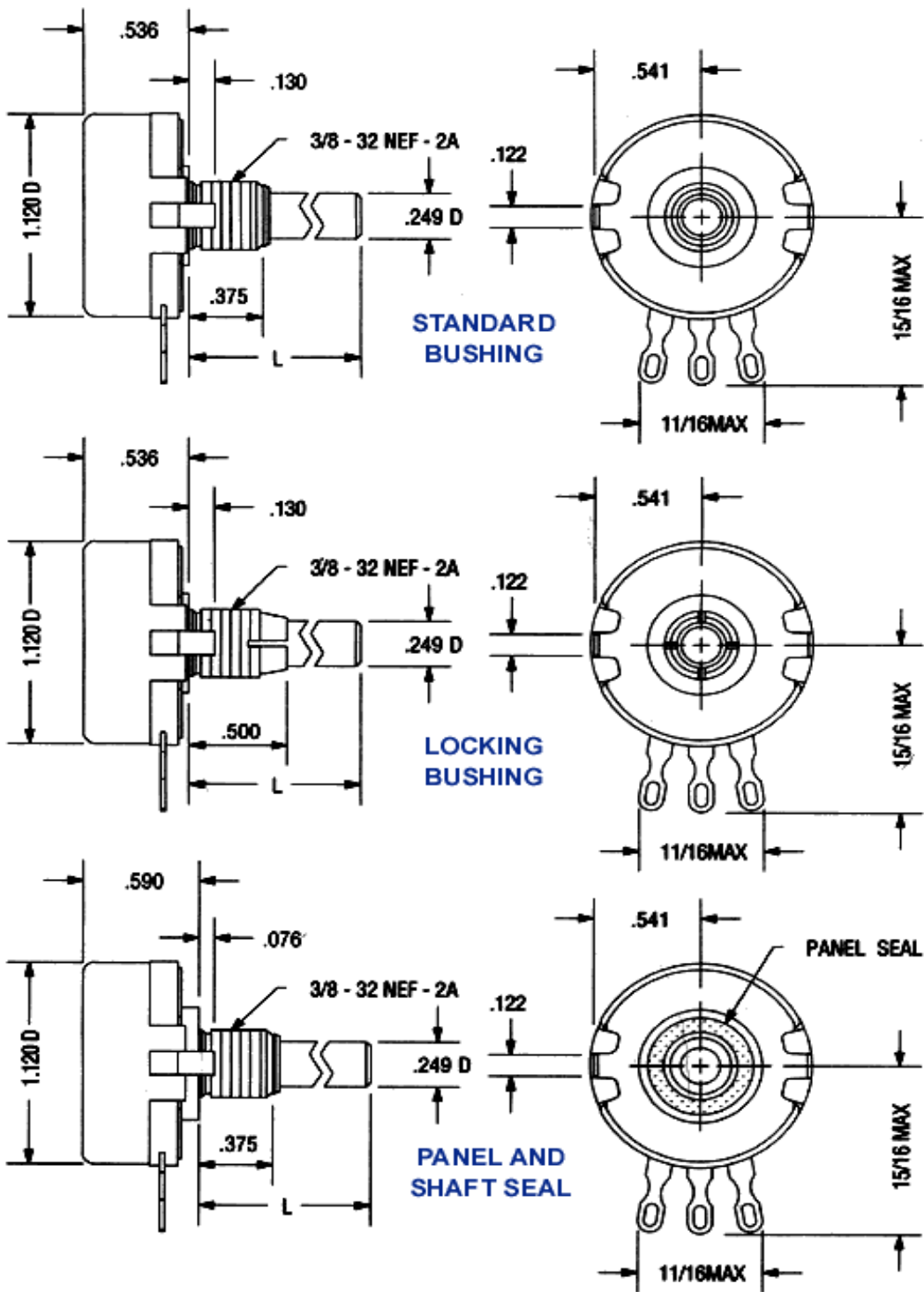
Vibration range: per MIL-R-94

Shock resistance: per MIL-R-94

Load life: 1000 hours at 70°C



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 Ω: 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"
Example: KSU1031R16 note: 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 Ω: 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%
Example: RV4NAYSB000A note: 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	RV4LAYSA 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	RV4LAYSD A	N/A	JA1L056S UA	N/A