

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

ELECTRICAL SPECIFICATIONS:

Resistance range, linear taper: 50 Ω to 5 Meg Ω

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

Resistance tolerance: ±10% or ±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

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

OPTIONS:

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

MECHANICAL SPECIFICATIONS:

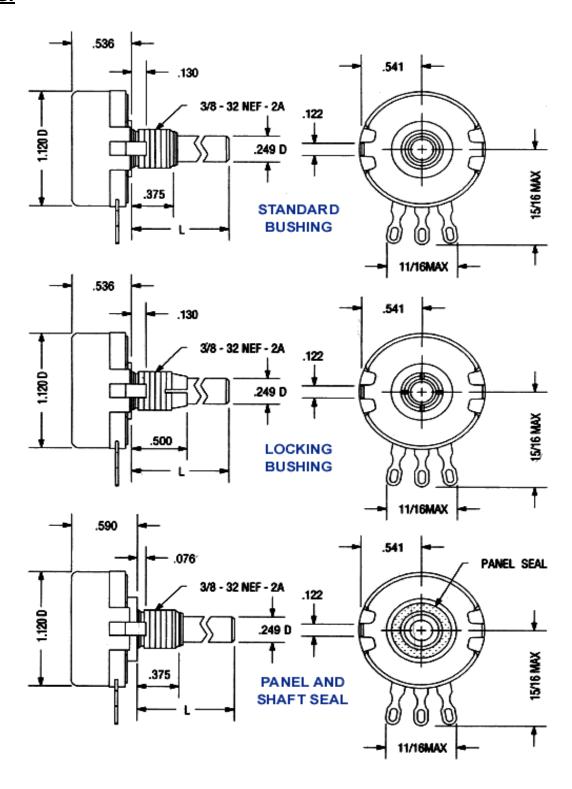
Mechanical rotation: 314°

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

Rotational life: 25,000 cycles



DRAWING:





ORDERING INFORMATION:

				<u> </u>			Shaft
Series	Bushing	Switch	Taper	Resistance Value	Tolerance	Shaft Style	Length
(= series K	Blank =	Blank =	U = linear	Total resistance value in	1 = 10% of	R = round S	16 = 1/2" 2 6
	standard	without		Ω: first 2 digits significant,	nominal	= slotted F =	= 5/8" 24 =
		switch		third digit =		flatted	3/4"
	L = locking	S = SPST	A =	number of zeroes	2 = 20% of		28 = 7/8" 3 2
		switch	logarithmic		nominal		= 1"
	W = panel &		B = reverse				40 = 1 1/4"
	shaft steel		logarithmic				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	A = without	Y = as per MIL-R-94	S = slotted	B = 1/2"	Total resistance value	A = linear 10%
	L = locking	switch		F = flatted	A = 5/8"	in Ω: first 2 digits	B = linear 20%
	S = panel &	B = SPST			D = 7/8"	significant, third digit =	C = logarithmic 10%
	shaft steel	switch			G = 1 1/4"	number of zeroes	D = logarithmic 20%
					J = 2"		E = reverse logarithmic
					K = 2 1/2"		10%
							F = reverse logarithmic
							20%

Example: RV4NAYSB000A

note: not all part number combinations are valid

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

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