



**THE DATASHEET OF
RV4NAYSD102A**





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:

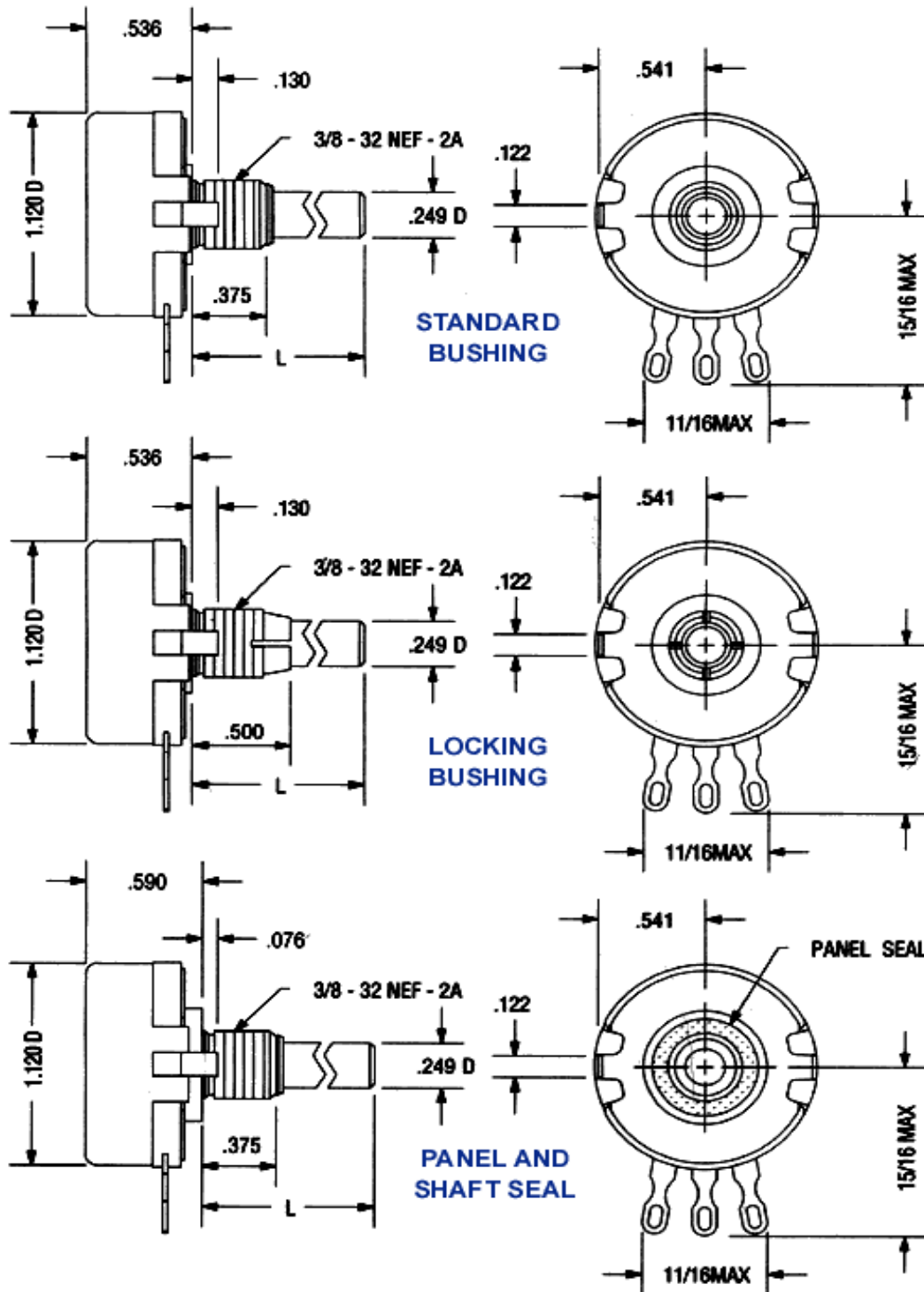
- Mechanical rotation:** 314°
- Operating torque:** 1 oz/in to 6 oz/in
- Rotational life:** 25,000 cycles

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 | 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 |

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View RV4NAYSD102A on WIN SOURCE](#)
-  [Precision Electronics Corporation Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management