



## Precision Series KK - 2 Watt multiple element 1/4" shaft diameter



Precision series KK/2RV7 potentiometers are suitable for both military and commercial applications requiring multiple elements. 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
- concentric shafts
- attached switches

### 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

### MECHANICAL SPECIFICATIONS:

**Mechanical rotation:** 314°

**Operating torque:** 1 oz/in to 12 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

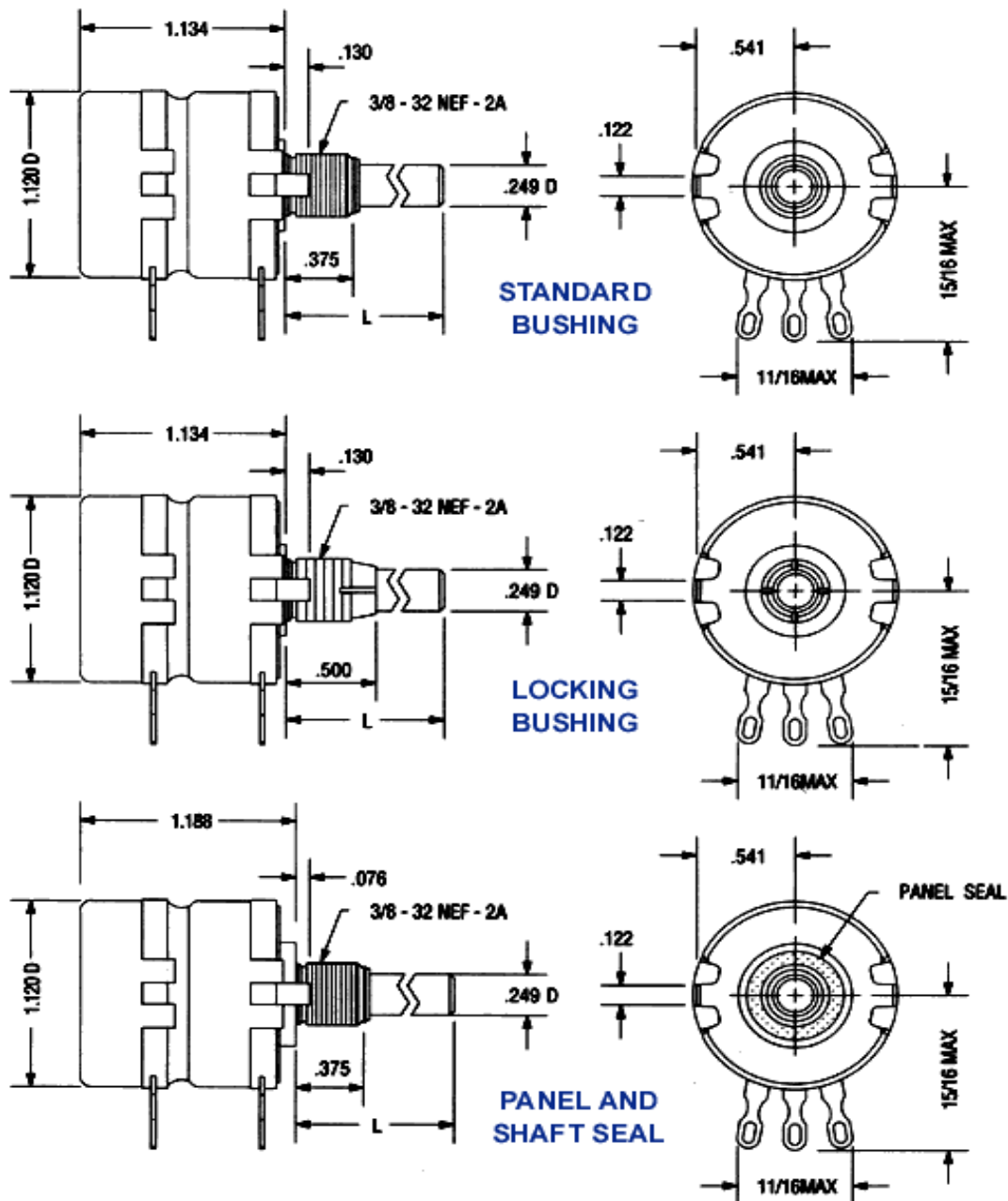
**Humidity range:** per MIL-R-94

**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  |
| <b>KK</b> = series KK - dual element<br><br><b>KKK</b> = series KKK - triple element  | <b>Blank</b> = standard<br><br><b>L</b> = locking<br><br><b>W</b> = panel & shaft steel | <b>Blank</b> = without switch<br><br><b>S</b> = SPST switch | <b>U</b> = linear<br><br><b>A</b> = logarithmic<br><b>B</b> = reverse logarithmic | <b>Total resistance value in <math>\Omega</math>:</b> first 2 digits significant, third digit = number of zeroes | <b>1</b> = 10% of nominal<br><br><b>2</b> = 20% of nominal | <b>R</b> = round<br><b>S</b> = slotted<br><b>F</b> = flattened | <b>16</b> = 1/2" <b>20</b> = 5/8" <b>24</b> = 3/4"<br><br><b>28</b> = 7/8" <b>32</b> = 1"<br><b>40</b> = 1 1/4"<br><b>48</b> = 1 1/2"<br><b>64</b> = 2"<br><b>80</b> = 2 1/2"<br><b>96</b> = 3" |
| <b>Example: KKK1041S28</b><br><b>note:</b> not all part number combinations are valid |   |   |   |  |  |  |   |

| Ordering Information - Military Part Numbers  |   |  |  |  |  |  |
|---|---|--|--|--|--|--|
| Style   | Bushing   | Temperature & Moisture Characteristics | Shaft Style                                | Shaft Length   | Resistance Value   | Taper & Tolerance  |
| <b>2RV7</b> = MIL style<br>2RV7   | <b>N</b> = standard<br><b>L</b> = locking<br><b>S</b> = panel & shaft steel | <b>Y</b> = as per MIL-R-94             | <b>S</b> = slotted<br><b>F</b> = flattened | <b>B</b> = 1/2"<br><b>A</b> = 5/8"<br><b>D</b> = 7/8"<br><b>G</b> = 1 1/4"<br><b>J</b> = 2"<br><b>K</b> = 2 1/2" | <b>Total resistance value in <math>\Omega</math>:</b> first 2 digits significant, third digit = number of zeroes | <b>A</b> = linear 10%<br><b>B</b> = linear 20%<br><b>C</b> = logarithmic 10%<br><b>D</b> = logarithmic 20%<br><b>E</b> = reverse logarithmic 10%<br><b>F</b> = reverse logarithmic 20% |
| <b>Example: RV4NAYSB000A</b><br><b>note:</b> not all part number combinations are valid |   |  |  |  |  |  |