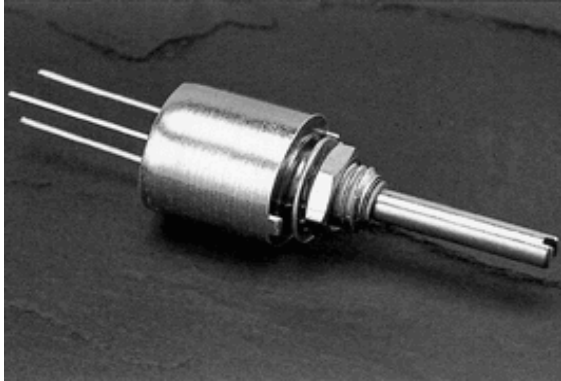




## Precision Series SPR - 1/2 Watt 1/8" shaft diameter



Precision series SPR/RV8 potentiometers are for PCB applications requiring a rugged potentiometer.

### FEATURES:

- hot molded carbon element
- board washable
- stainless steel shaft
- compact size
- quality meeting or exceeding MIL-R-94 - QPL listed

### OPTIONS:

- custom shafts and bushings
- special tapers
- customer specified marking
- location tab position

### ELECTRICAL SPECIFICATIONS:

**Resistance range, linear taper:** 100  $\Omega$  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:** 0.5 watts at 70°C derated to 0 watts at 120°C

**Insulation resistance:**

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

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

**Dielectric strength:** 750 V RMS at sea level

**Operating voltage:** 350 V, subject to power rating

### MECHANICAL SPECIFICATIONS:

**Mechanical rotation:** 295°

**Operating torque:** 0.5 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

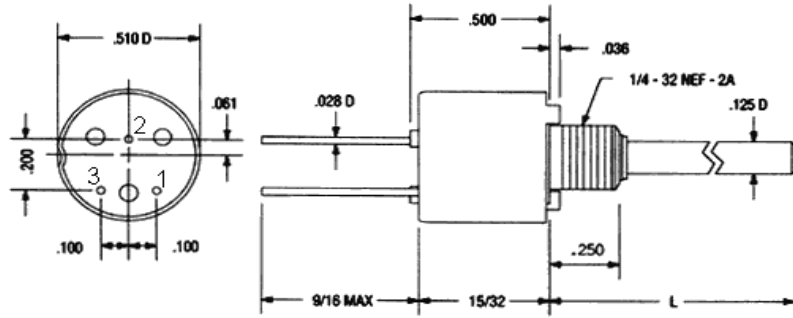
**Vibration range:** per MIL-R-94

**Shock resistance:** per MIL-R-94

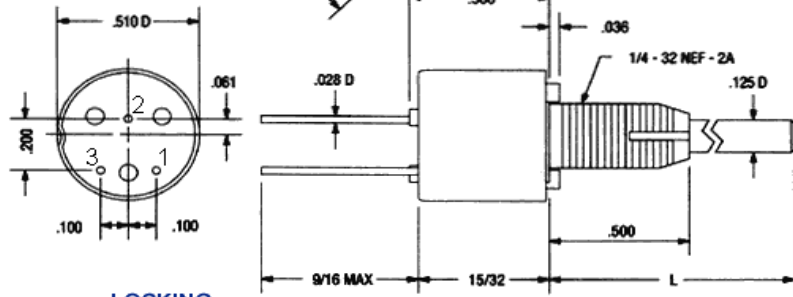
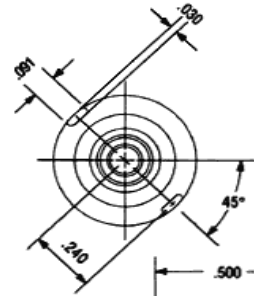
**Load life:** 1000 hours at 70°C



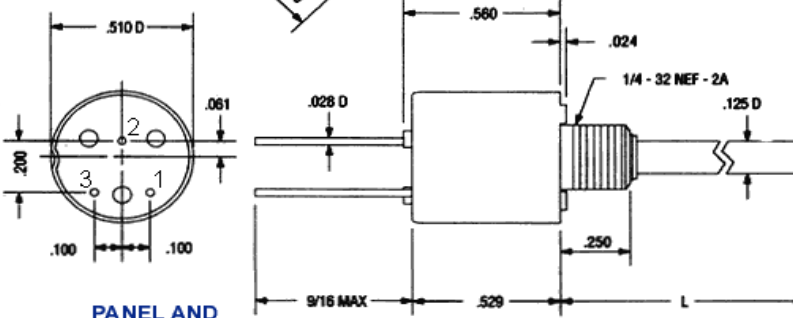
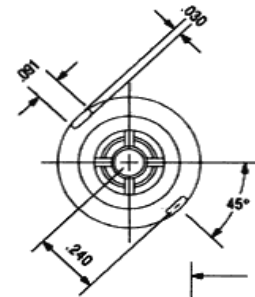
**DRAWING:**



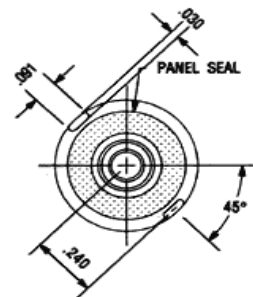
**STANDARD BUSHING**



**LOCKING BUSHING**



**PANEL AND SHAFT SEAL**





**ORDERING INFORMATION:**

Ordering Information - Commercial Part Numbers							
Series	Bushing	Bushing Length	Taper	Resistance Value	Tolerance	Shaft Style	Shaft Length
SPR = series SPR	Blank = standard L = locking W = panel & shaft seal	Blank = 1/4" 6 = 3/8"	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"
<b>Example: SPRU2521R20</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
RV8 = MIL style RV8	N = standard L = locking S = panel & shaft seal	A = without switch	Y = as per MIL-R-94	S = slotted F = flatted	L = 3/8" B = 1/2" A = 5/8" D = 7/8"	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: RV8NAYSD252A</b> <b>note:</b> not all part number combinations are valid							

Series SPR Cross Reference			
Precision	Military	Clarostat	Allen Bradley
SPR	RV8NAY	392	W or G
SPRL	RV8LAY	392	