



Precision Series S - 1/2" Watt 1/8" shaft diameter



Precision series S/RV6 potentiometers are ideal for applications requiring high reliability and a compact size.

FEATURES:

- hot molded carbon element
- one piece housing and bushing
- stainless-steel shaft
- compact size
- quality meeting or exceeding MIL-R-94 - QPL listed

OPTIONS:

- custom shafts and bushings
- special tapers
- customer specified marking

ELECTRICAL SPECIFICATIONS:

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

Insulation resistance:

dry: 10K Meg Ω

wet: 100K Meg Ω

Dielectric strength: 750 V RMS at sea level

Operating voltage: 350 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

MECHANICAL SPECIFICATIONS:

Mechanical rotation: 295°

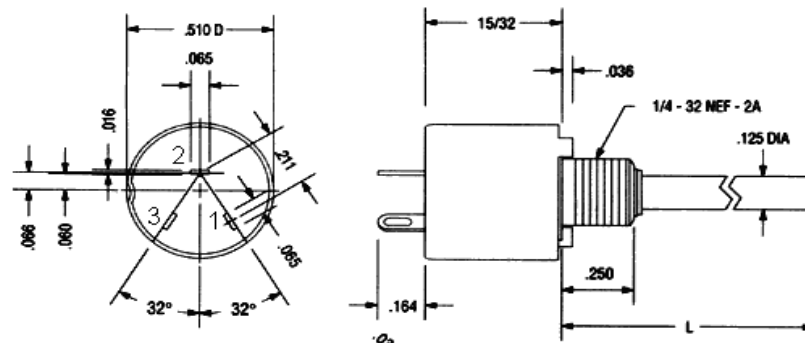
Operating torque: 0.5 oz/in to 6 oz/in

Rotational life: 25,000 cycles

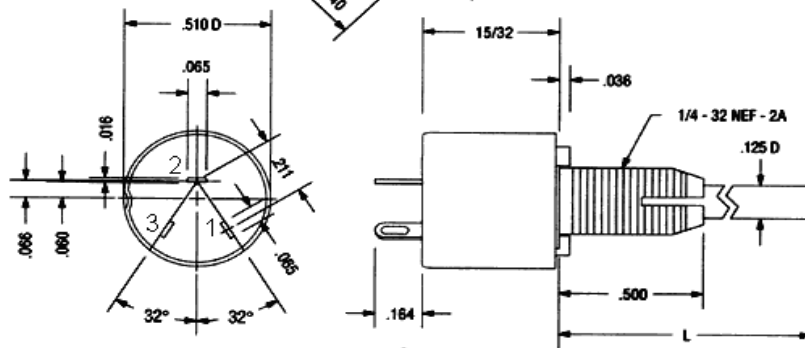


DRAWING:

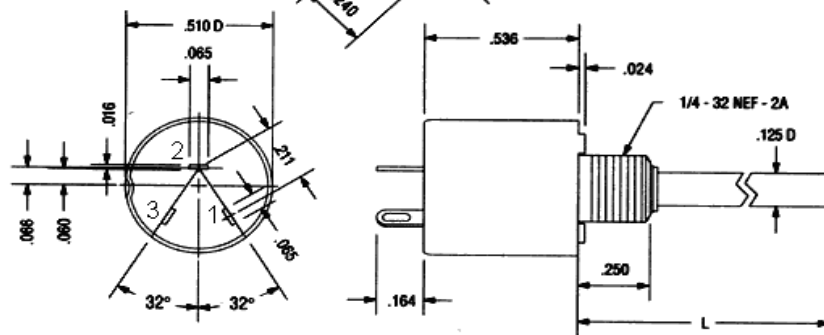
MIL Style RV6



**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
S = series S	Blank = standard L = locking W = panel & shaft steel	Blank = 1/4" 6 = 3/8"	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 = flattened	16 = 1/2" 20 = 5/8" 24 = 3/4" 28 = 7/8" 32 = 1" 36 = 1 1/8"
Example: SLA1021S20 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
RV6 = MIL style RV6	N = standard L = locking S = panel & shaft seal	A = without switch	Y = as per MIL-R-94	S = slotted F = flattened	L = 3/8" B = 1/2" A = 5/8" D = 7/8"	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: RV6LAYS A102C note: not all part number combinations are valid							

Series S Cross Reference				
Precision	Military	Clarostat	Allen Bradley	Ohmite
SU S28	RV6NAYSD A	392M / 382C3	WA2G056S UA	ASM
SU S12	RV6NAYSL A	392M / 382C4	WA2G024S UA	N/A
SLU S20	RV6LAYS A	392M / 382C2	WA2L040S UC	AS
SLU S28	RV6LAYSD A	393M / 382C5	WA2L056S UC	N/A