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: ±10% or ±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

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:
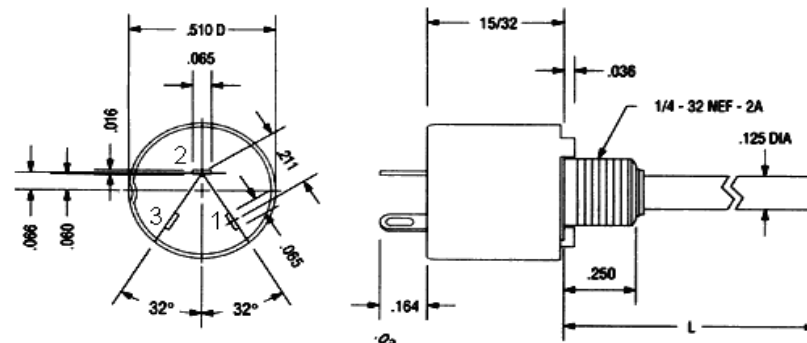
STANDARD
BUSHING
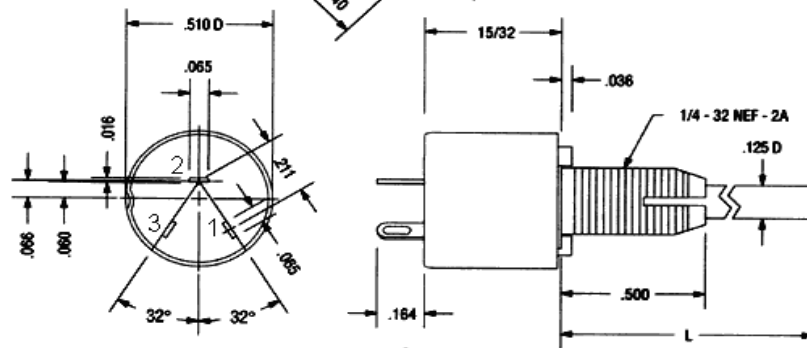
LOCKING
BUSHING
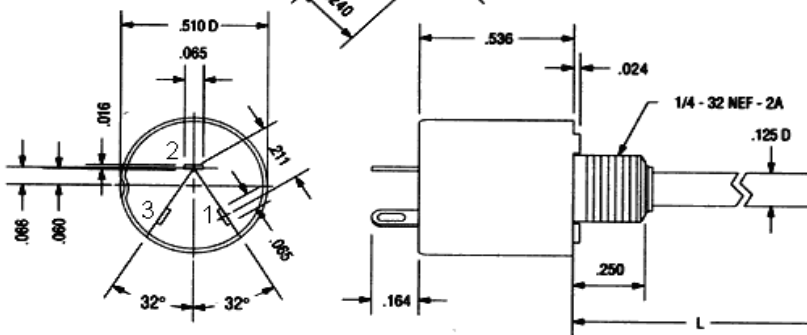
PANEL AND
SHAFT SEAL

PANEL SEAL

PRECISION
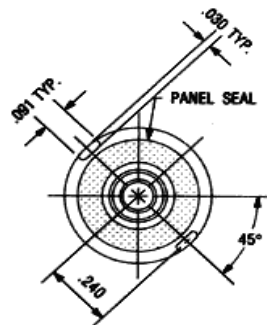
ORDERING INFORMATION:

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** = flatted	**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** = flatted	**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: RV6LAYSA102C							
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	RV6LAYSA A	392M / 382C2	WA2L040S UC	AS
SLU S28	RV6LAYSD A	393M / 382C5	WA2L056S UC	N/A