

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

ELECTRICAL SPECIFICATIONS:

Resistance range, linear taper: 100Ω to $5 \text{ Meg } \Omega$

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

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

OPTIONS:

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

MECHANICAL SPECIFICATIONS:

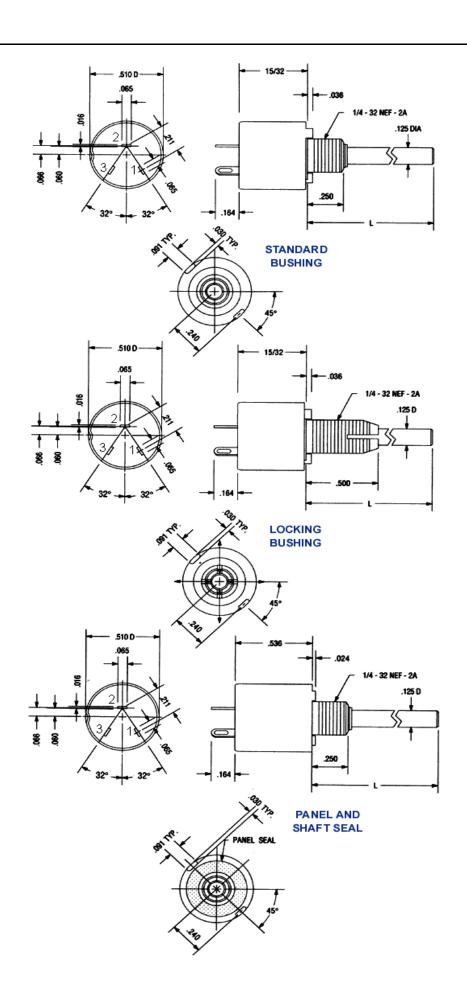
Mechanical rotation: 295°

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

Rotational life: 25,000 cycles



DRAWING:





ORDERING INFORMATION:

		Bushing					Shaft
Series	Bushing	Length	Taper	Resistance Value	Tolerance	Shaft Style	Length
S = series S	Blank =	Blank = 1/4"	U = linear	Total resistance value in	1 = 10% of	R = round S	
	standard			Ω: first 2 digits significant,	nominal	= slotted F =	= 5/8" 24 =
				third digit =		flatted	3/4"
	L = locking	6 = 3/8"	A =	number of zeroes	2 = 20% of		28 = 7/8" 3 :
			logarithmic		nominal		= 1"
	W = panel &		B = reverse				36 = 1 1/8"
	shaft steel		logarithmic				

Example: SLA1021S20

note: not all part number combinations are valid

Style	Bushing	Switch	Temperature & Moisture Characteristics	Shaft Style	Shaft Length	Resistance Value	Taper & Tolerance
	N = standard						
RV6 = MIL style RV6		A = without	Y = as per MIL-R-94	S = slotted	L = 3/8"	Total resistance value	A = linear 10%
	L = locking	switch		F = flatted	B = 1/2"	in Ω: first 2 digits	B = linear 20%
	S = panel &				A = 5/8"	significant, third digit =	C = logarithmic 10%
	shaft seal				D = 7/8"	number of zeroes	D = logarithmic 20%
							E = reverse logarithmic
							10%
							F = reverse logarithmic
							20%

Example: RV6LAYSA102C

note: not all part number combinations are valid

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