Precision electronics

70 Bartor Road, Toronto, Ontario, Canada
Tel. +1 (416) 744-8840
precisionelectronics.com

PRODUCT SPECIFICATION

Series R

Precision series R potentiometers are suitable for commercial applications.

RoHS and REACH Complaint and contain no Conflict minerals.
These Products meet Military Specifications,
Custom made parts available on request.

Electrical Specification

Resistance tolerance: ±10% or ±20%

Power rating: 0.5 watt at 70°C derated to 0 watts at 120°C

Insulation resistance:

dry: 10K MegΩ

wet: 100K MegΩ

Dielectric strength: 900 V RMS at sea level

Operating voltage: 350 V, subject to power rating

Features

- hot molded carbon element
- gold-plated terminals
- stainless-steel shaft and housing
- board washable
- quality meeting or exceeding MIL-R-94 - QPL listed

Mechanical Specification

Mechanical rotation: 300°

Operating torque: 1 oz/in to 6oz/in

Rotational life: 25,000 cycles standard optional up to 500,000

Enviromental Specification

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

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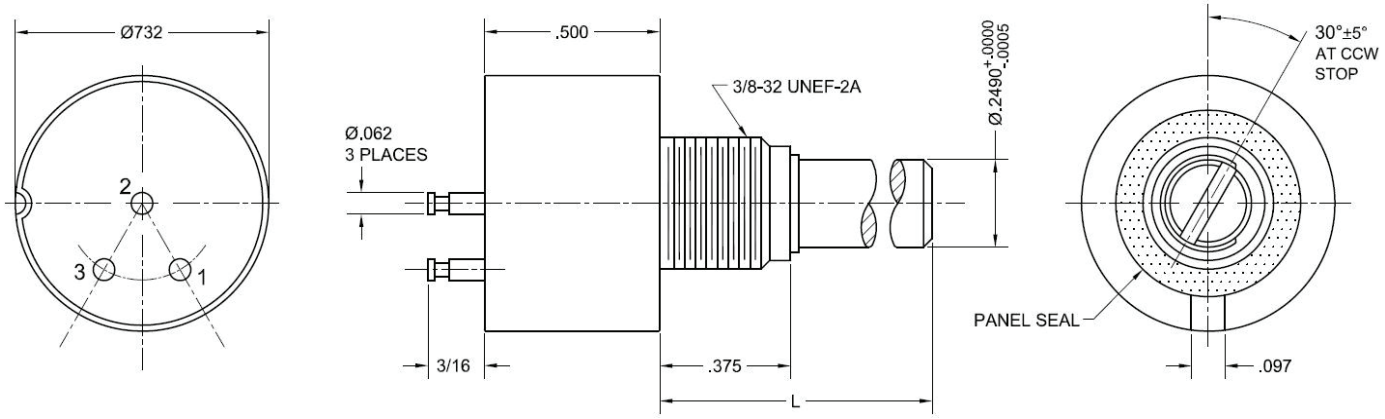
Standard Bushing



Percent Of Total Nominal Resistance

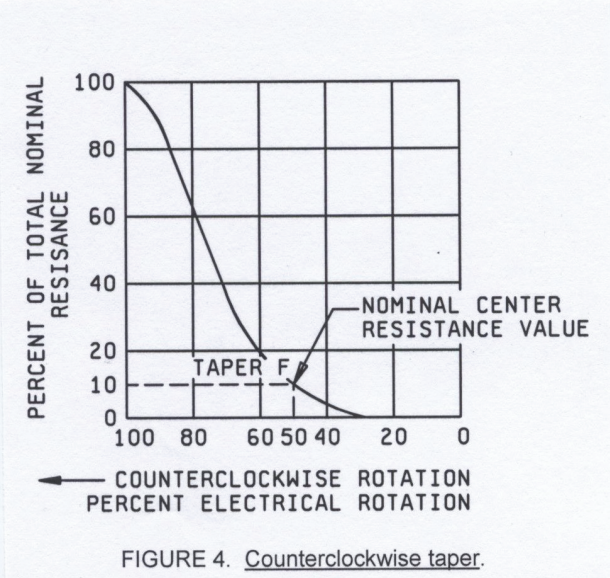


FIGURE 4. Counterclockwise taper.

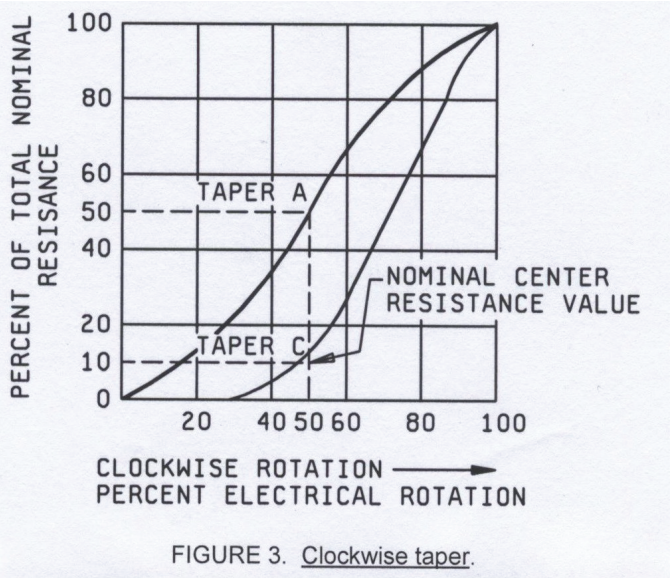


FIGURE 3. Clockwise taper.

Ordering Information - Military Part Numbers

Style	Bushing	Bushing lenghth	Taper	Resitance Value	Taper and tolerance	Shaft Style	Shaft Length
R = style R	**W** = Panel & Shaft Seal	**4** = 1/4 **Blank** = 3/8"	**U** = linear **A** = logarithmic **B** = reverse logarithmic	**total resistance value in Ω:** first two digits significant, third digit = number of zeroes	**1** = 10% of nominal **2** = 20% of nominal	**R** = rounded **S** = slotted **F** = flatted	**16** = 1/2" **20** = 5/8" **24** = 3/4" **28** = 7/8"

Example: PU1052

note: not all part number combinations are valid