

# MIL Style RV2 - 1 Watt Carbon Potentiometer

**STATE**  
ELECTRONICS

For more information about this product, visit our website at:  
[www.potentiometers.com](http://www.potentiometers.com)



***Series RV2 potentiometers are suitable for both military and commercial applications.***  
***These units can be customized to meet special requirements.***

## Features

- Hot molded carbon element
- Gold plated terminals
- One piece brass housing
- Stainless steel shaft
- Meets or exceeds specifications of MIL-R-94
- QPL Listed
- Commercial equivalent, see [Series N](#)

## Options:

- Custom shafts and bushings
- Special tapers
- Fourth (center) terminal
- attached switches

## Mechanical Specifications

- Mechanical Rotation: 300°
- Operating Torque: 1 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 to 5 seconds
- Humidity Range: per Mil-R-94
- Vibration Range: per Mil-R-94
- Shock Resistance: per Mil-R-94
- Load Life: 1000 hr at 70 °C

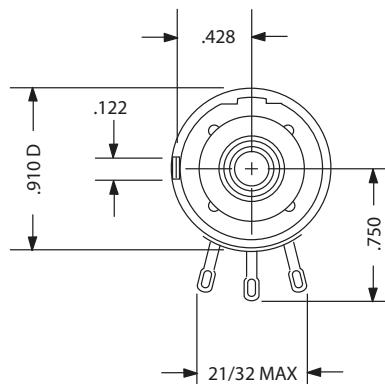
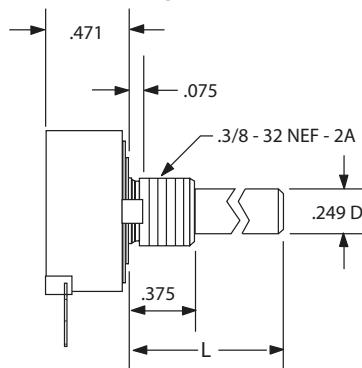
## Electrical Specifications

- Resistance Range-linear taper: 100 ohms to 5 megs
- Resistance Range-log taper: 150 ohms to 1 meg
- Resistance Tolerance: ±10% or ±20%
- Resistance Taper: linear, log, reverse log  
(other tapers by special order)
- Power Rating: 1 watts @ 70 °C derated to 0 watts @ 120 °C
- Insulation Resistance: 10K Meg (dry); 100K Meg (wet)
- Dielectric Strength: 900 V RMS at sea level
- Operating Voltage: 500 V subject to power rating

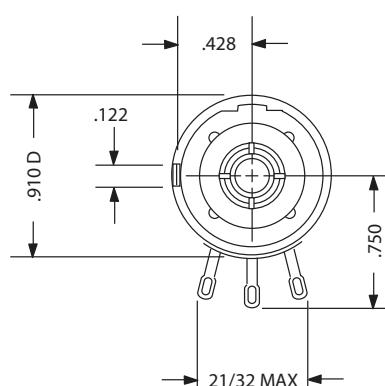
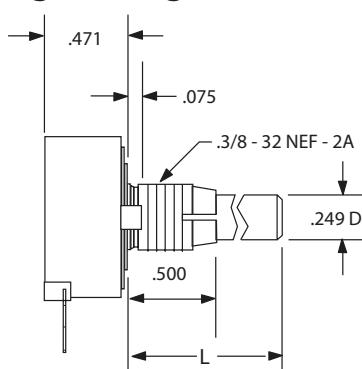
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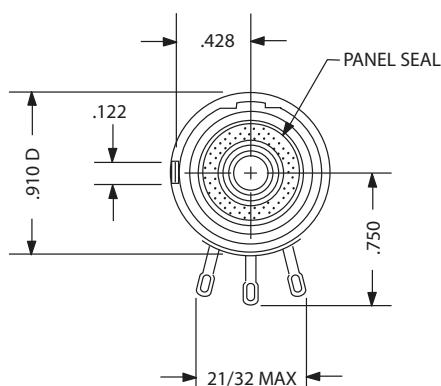
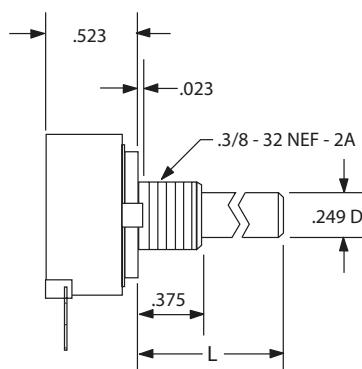
## Standard Configuration



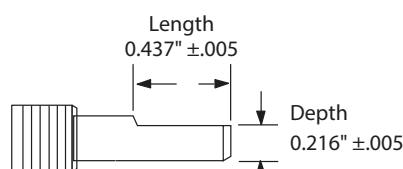
## Locking Bushing



## Panel Seal



## Flatted Shaft

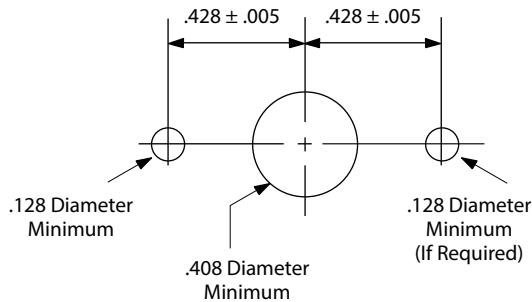


.Note:  
Flatted Shaft is not available  
with Locking Option

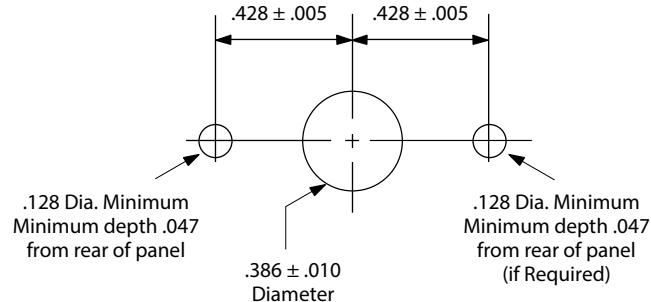
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## Panel Mounting Holes



Mounting dimensions for units with plain bushings, shaft watertight bushings, and locking bushings



Mounting dimensions for units with panel watertight bushings

## Ordering Information - Commercial Part Numbers

### Carbon element standard.

Conductive Plastic available in some configurations. Contact sales rep for information.

Series	Bushing	Switch	Taper	Resistance Value:	Tolerance:	Shaft Style:	Shaft Length:
N = Series N	blank = Std. L = Locking W = Panel & Shaft Seal	blank = No Switch S = SPST Switch	U = Linear A = Log B = Rev. Log	<b>Total Resistance Value in Ohms:</b> First 2 numbers are significant digits, 3rd number is the number of zeros.	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" 40 = 1 1/4"

**Example Part Number: NLA7511S28**

Note: not all part number combinations are valid.

## Ordering Information - Military Part Numbers

### Carbon or Conductive Plastic element available

Style	Bushing	Switch	Temperature and Moisture Characteristics:	Shaft Style:	Shaft Length:	Resistance Value:	Taper and Tolerance:
RV2 = MIL style RV2	N = Standard L = Locking S = Panel & Shaft Seal	A = Without Switch B = SPST Switch	Y = as per MIL-R-94	S = Slotted F = Flattened	B = 1/2" A = 5/8" D = 7/8" G = 1 1/4" J = 2" K = 2 1/2"	<b>Total Resistance Value in Ohms:</b> First 2 numbers are significant digits, 3rd number is the number of zeros.	A = Linear ±10% B = Linear ±20% C = Log ±10% D = Log ±20% E = Rev. Log ±10% F = Rev. Log ±20%

**Example Part Number: RV2NAYS103A**

Note: not all part number combinations are valid.

More options and combinations are available on commercial versions

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