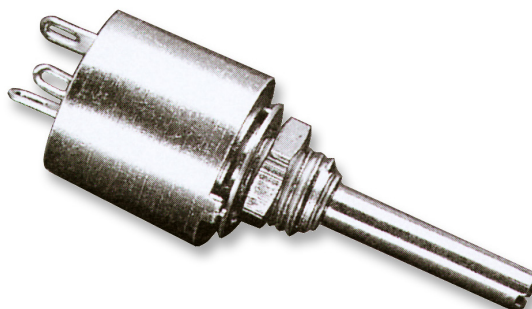


# MIL Style RV6 - 1/2 Watt Carbon Potentiometer



For more information about this product, visit our website at:

[www.potentiometers.com](http://www.potentiometers.com)



*Series S/RV6 potentiometers are suitable for applications requiring high reliability and a compact size.*

## Features

- Hot molded carbon element
- One piece brass housing and bushing
- Stainless steel shaft
- Compact size
- Meets or exceeds specifications of MIL-R-94
- QPL Listed
- Commercial equivalent, see [Series S](#)

## Options

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

## Electrical Specifications

Resistance Range-linear taper: 100 ohms to 5 meg

Resistance Range-log taper: 150 ohms to 1 meg

Resistance Tolerance:  $\pm 10\%$  or  $\pm 20\%$

Resistance Taper: linear, log, reverse log  
(other tapers by special order)

Power Rating: 5 watts @ 70 °C derated to 0 watts @ 120 °C

Insulation Resistance: 10K Meg (dry); 100K Meg (wet)

Dielectric Strength: 750 V RMS at sea level

Operating Voltage: 350 V subject to power rating

## Mechanical Specifications

Mechanical Rotation: 295°

Operating Torque: .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 to 5 seconds

Humidity Range: per Mil-R-94

Vibration Range: per Mil-R-94

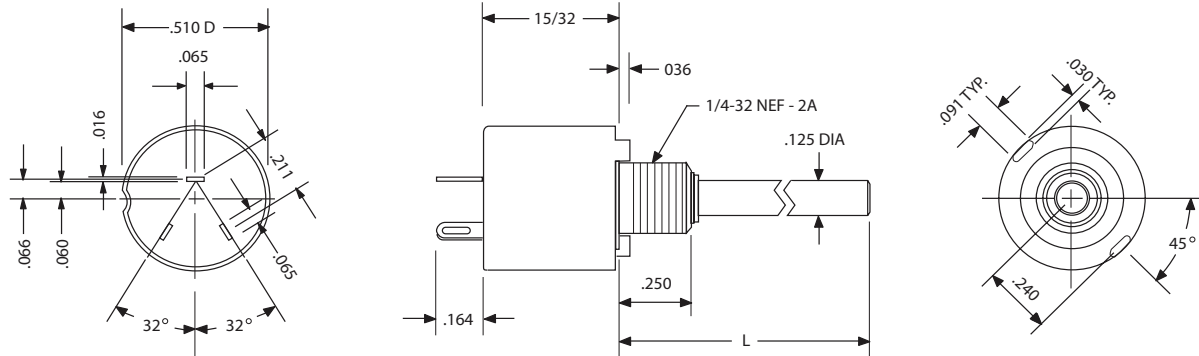
Shock Resistance: per Mil-R-94

Load Life: 1000 hr at 70 °C

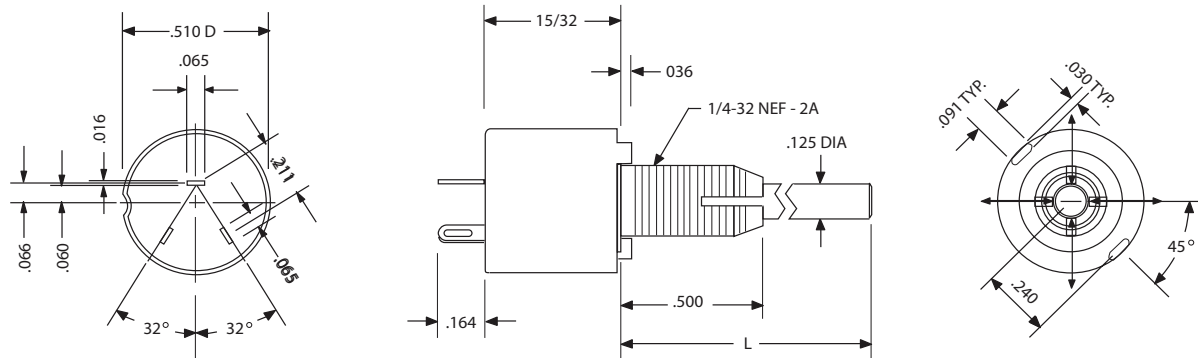
# MIL Style RV6 - 1/2 Watt Carbon Potentiometer



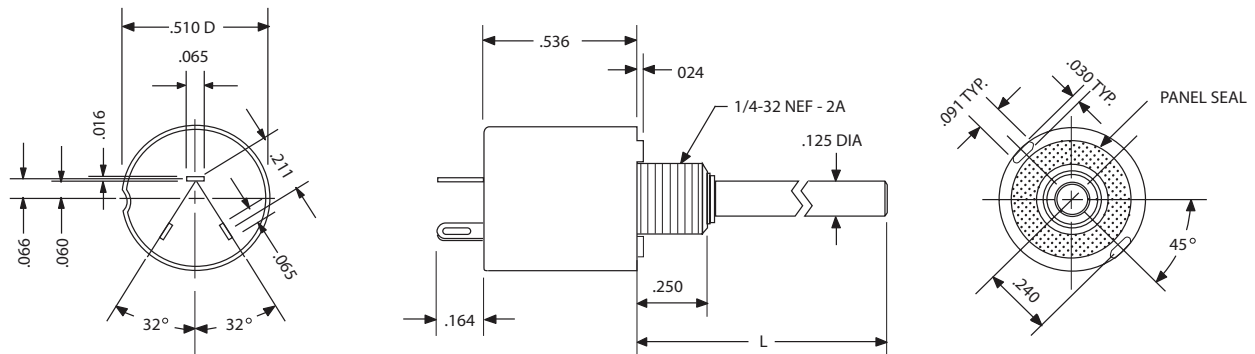
## Standard Configuration



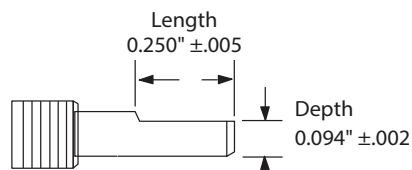
## Locking Bushing



## Panel Seal



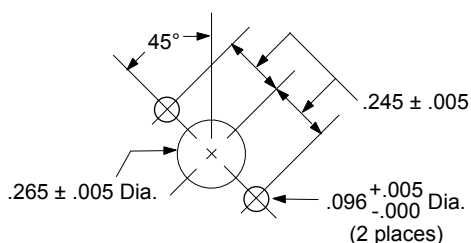
## Flatted Shaft



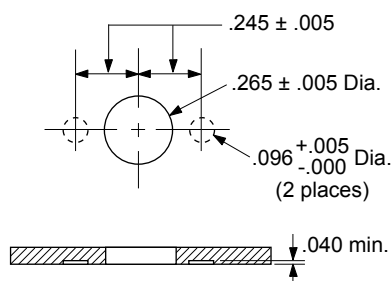
.Note:  
Flatted Shaft is not available if  
Locking Option is selected.

# MIL Style RV6 - 1/2 Watt Carbon Potentiometer

## Panel Mounting Holes



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



Mounting dimensions for panel watertight units

## 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:
<b>RV6</b> = MIL style RV6	<b>N</b> = Standard <b>L</b> = Locking <b>S</b> = Panel & Shaft Seal	<b>A</b> = Without Switch	<b>Y</b> = as per MIL-R-94	<b>S</b> = Slotted <b>F</b> = Flatted	<b>L</b> = 3/8" <b>B</b> = 1/2" <b>A</b> = 5/8" <b>D</b> = 7/8"	<b>Total Resistance Value in Ohms:</b> First 2 numbers are significant digits, 3rd number is the number of zeros.	<b>A</b> = Linear ±10% <b>B</b> = Linear ±20% <b>C</b> = Log ±10% <b>D</b> = Log ±20% <b>E</b> = Rev. Log ±10% <b>F</b> = Rev. Log ±20%

### Example Part Number: RV6LAYSB103A

Note: not all part number combinations are valid.  
More options and combinations are available on commercial versions

## Ordering Information - Commercial Part Numbers

Carbon element standard.

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

Series	Bushing	Bushing Length:	Taper	Resistance Value:	Tolerance:	Shaft Style:	Shaft Length:
<b>S</b> = Series S	<b>blank</b> = Std. <b>L</b> = Locking <b>W</b> = Panel & Shaft Seal	<b>blank</b> = 1/4" <b>6</b> = 3/8"	<b>U</b> = Linear <b>A</b> = Log <b>B</b> = Rev. Log	<b>Total Resistance Value in Ohms:</b> First 2 numbers are significant digits, 3rd number is the number of zeros.	<b>1</b> = 10% of Nominal <b>2</b> = 20% of Nominal	<b>R</b> = Round <b>S</b> = Slotted <b>F</b> = Flatted	<b>16</b> = 1/2" <b>20</b> = 5/8" <b>24</b> = 3/4" <b>28</b> = 7/8" <b>32</b> = 1" <b>36</b> = 1 1/8"

### Example Part Number: SLA1031S20

Note: not all part number combinations are valid.

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



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