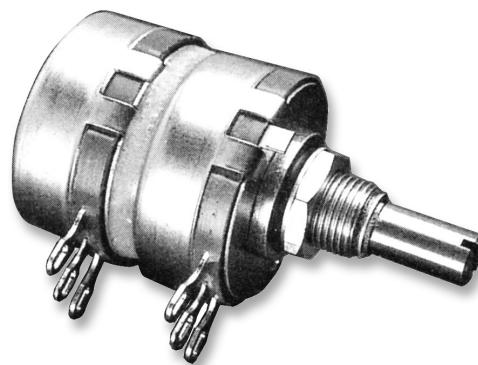


# MIL Style 2RV7 - 2 Watt Dual Carbon Potentiometer

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

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

*Series 2RV7 potentiometers are suitable for both military and commercial applications requiring multiple elements. These units can be customized to meet special requirements.*

## Features

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

## Options:

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

## Mechanical Specifications

- Mechanical Rotation: 314°
- Operating Torque: 1 oz/in to 12 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: 50 ohms to 5 meg
- Resistance Range-logarithmic taper: 150 ohms to 1 meg
- Resistance Tolerance: ±10% or ±20%
- Resistance Taper: linear, log, reverse log  
(other tapers by special order)
- Power Rating: 2 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

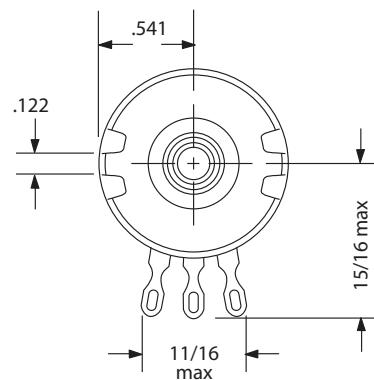
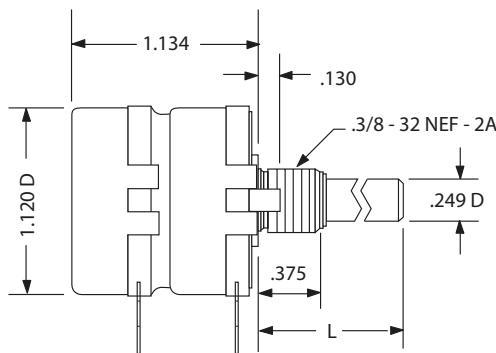
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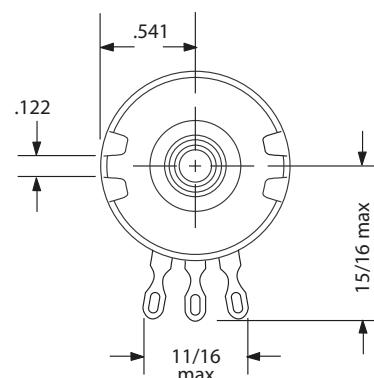
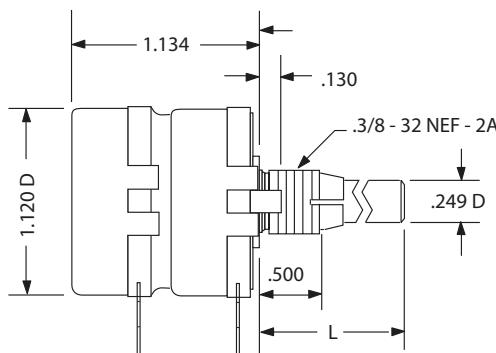
# MIL Style 2RV7 - 2 Watt Dual Carbon Potentiometer

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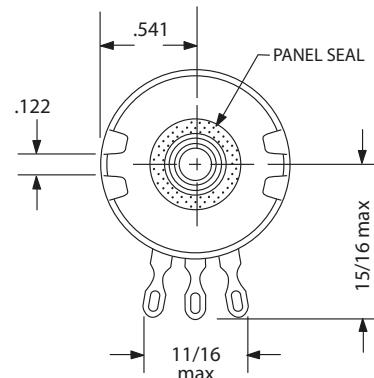
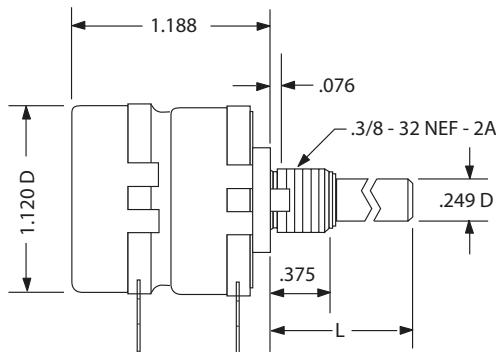
## Standard Configuration



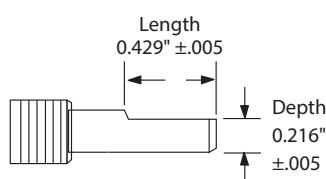
## Locking Bushing



## Panel Seal

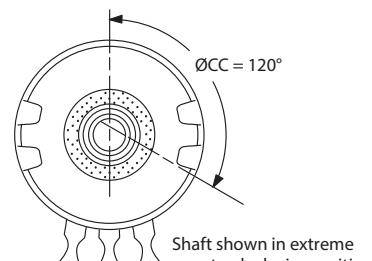


## Flatted Shaft



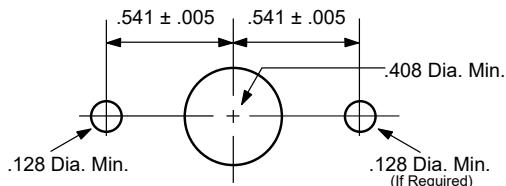
### Notes:

1. Flatted Shaft is not available with Locking or Shaft Seal Options
2. Flat will extend to within 0.031" (0.79 mm) of the shoulder.

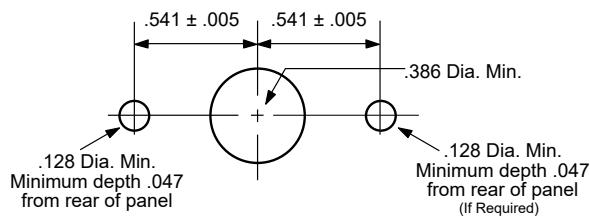


# MIL Style 2RV7 - 2 Watt Dual Carbon Potentiometer

## 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:
<b>KK</b> = Series KK - dual element <b>KKK</b> = Series KKK - triple element	<b>blank</b> = Stand. <b>L</b> = Locking <b>W</b> = Panel & Shaft Seal	<b>blank</b> = No Switch <b>S</b> = SPST Switch	<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>40</b> = 1 1/4" <b>48</b> = 1 1/2" <b>64</b> = 2" <b>80</b> = 2 1/2" <b>96</b> = 3"

**Example Part Number: KKU1031S16**

Note: A switch section, if selected, will be the second section for a KK unit, or the third section for a KKK unit

Note: not all part number combinations are valid.

## Ordering Information - Military Part Numbers

### Carbon or Conductive Plastic element available

Style	Bushing	Temperature and Moisture Characteristics:	Shaft Style:	Shaft Length:	Resistance Value:	Taper and Tolerance:
<b>2RV7</b> = MIL style 2RV7	<b>N</b> = Standard <b>L</b> = Locking <b>S</b> = Panel & Shaft Seal	<b>Y</b> = as per MIL-R-94	<b>S</b> = Slotted <b>F</b> = Flatted	<b>B</b> = 1/2" <b>A</b> = 5/8" <b>D</b> = 7/8" <b>G</b> = 1 1/4" <b>J</b> = 2" <b>K</b> = 2 1/2"	<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: 2RV7NYSD103103A**

Note: not all part number combinations are valid.

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