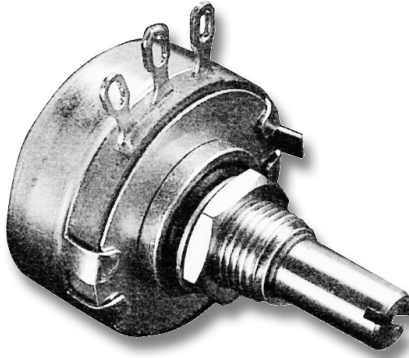


MIL Style RV4 - 2 Watt Carbon Potentiometer



For more information about this product, visit our website at:
www.potentiometers.com



Series RV4 potentiometers:

- Suitable for both military and commercial applications.
- Can be customized to meet special requirements.
- RoHS and REACH Complaint and contain no Conflict minerals.

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 K](#)

Options:

- Custom shafts and bushings
- Special tapers
- Fourth (center) terminal
- High life
- Attached switch

Electrical Specifications

Electrical Rotation: 285°
Resistance Range-linear taper: 50 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: 2 watts @ 70°C derated to 0 @ 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

Mechanical Specifications

Mechanical Rotation: 314°
Mechanical Rotation with Switch 333°
Operating Torque: 1 oz/in to 6 oz/in
Rotational Life: 25,000 cycles

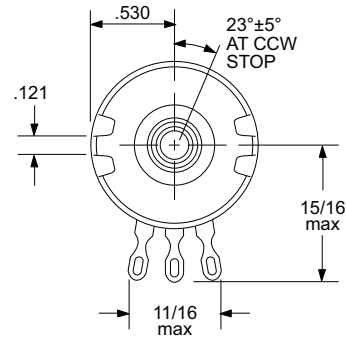
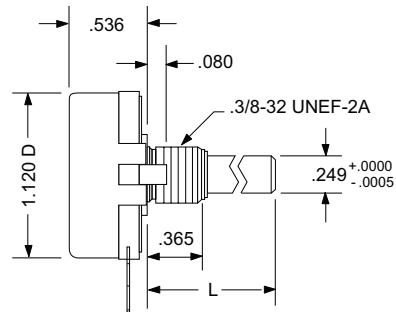
Environmental Specifications

Operating Temperature: -65 °C to +125 °C
Resistance to Soldering Heat: 350 °C for 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

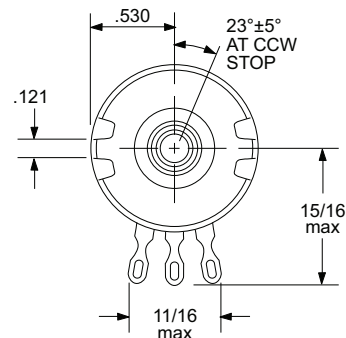
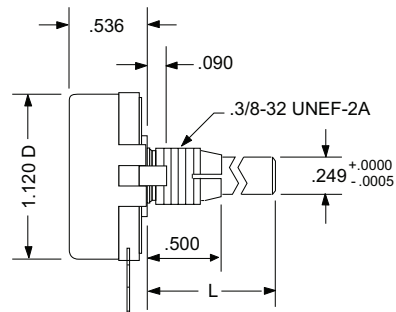
Available Resistance Values

| | | |
|-------|---------|-----------|
| 50 | 3,500 | 200,000 |
| 100 | 5,000 | 250,000 |
| 150 | 7,500 | 350,000 |
| 200 | 10,000 | 500,000 |
| 250 | 15,000 | 750,000 |
| 350 | 20,000 | 1,000,000 |
| 500 | 25,000 | 1,500,000 |
| 750 | 35,000 | 2,000,000 |
| 1,000 | 50,000 | 2,500,000 |
| 1,500 | 75,000 | 3,500,000 |
| 2,000 | 100,000 | 5,000,000 |
| 2,500 | 150,000 | |

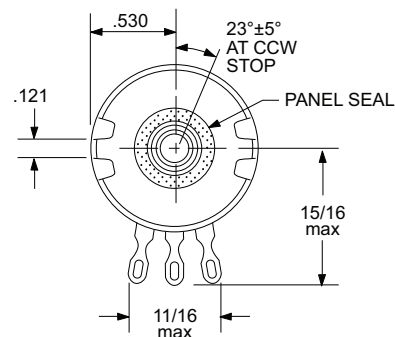
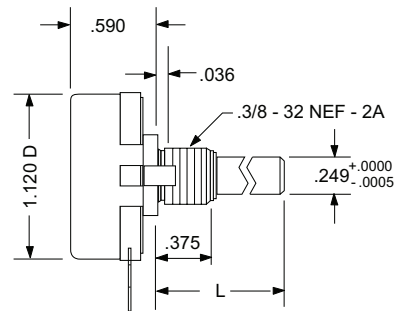
Standard Configuration



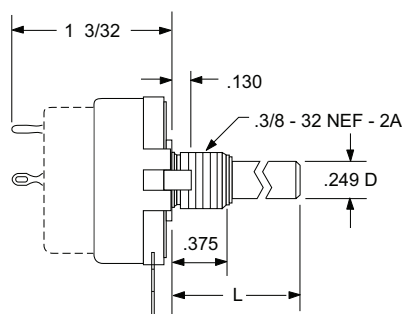
Locking Bushing



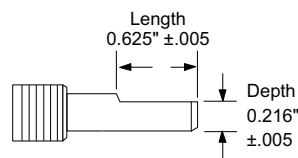
Panel Seal



With SPST Switch

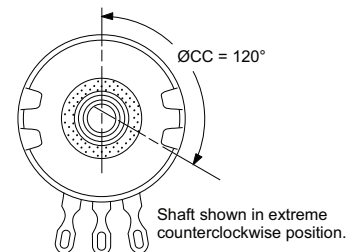


Flatted Shaft



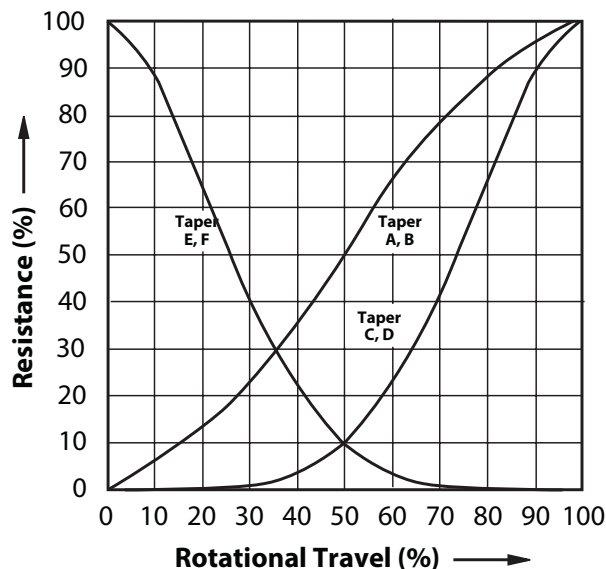
Notes:

1. Flatted Shaft is not available with Locking or Shaft Seal Options
2. Flat will extend to within 0.031" (0.79) of mounting bushing where shaft length will not permit standard flat.



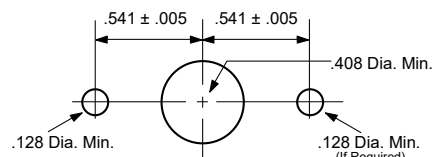
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Resistance Taper

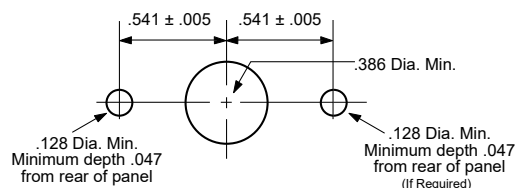


Panel Mounting Dimensions

Units with plain bushings, shaft watertight bushings, or locking bushings



Units with panel watertight bushing



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: |
|----------------------------|--|---|---|--|--|--|--|
| RV4 = MIL style RV4 | N = Standard L = Locking S = Panel & Shaft Seal | A = Without Switch B = SPST Switch | Y = as per MIL-R-94 | S = Slotted F = Flatted | B = 1/2" A = 5/8" D = 7/8" G = 1 1/4" J = 2" K = 2 1/2" | Total Resistance Value in Ohms: 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: RV4NAYS103A

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 | Switch | Taper | Resistance Value: | Tolerance: | Shaft Style: | Shaft Length: |
|---------------------|--|--|--|--|--|--|--|
| K = Series K | blank = Std. L = Locking W = Panel & Shaft Seal | blank = No Switch S = SPST Switch | U = Linear A = Log B = Rev. Log | Total Resistance Value in Ohms: 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 = Flatted | 16 = 1/2" 20 = 5/8" 24 = 3/4" 28 = 7/8" 32 = 1" 40 = 1 1/4" 48 = 1 1/2" 64 = 2" 80 = 2 1/2" 96 = 3" |

Example Part Number: KSU1031R16

Note: not all part number combinations are valid.

For more information about this product,
visit our website at: www.potentiometers.com

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