

# EUP120/125

0.5 watt - 1/2 inch diameter



*Series EUP120 and EUP125 potentiometers feature  
Conductive Plastic elements for long life and stability*

## Features

- Conductive plastic element
- Thermoset plastic housing
- Nickel plated brass bushing
- Stainless steel shaft

## Electrical specifications

Resistance Range: 1K, 5K, 10K ohms standard

Resistance Tolerance:  $\pm 20\%$

Resistance Linearity:  $\pm 5\%$

Electrical Rotation

EUP120 -  $300^\circ \pm 5^\circ$  (end stops)

EUP125 -  $300^\circ \pm 5^\circ$

Resolution: Essentially infinite

Power Rating: 0.5 watts

Insulation Resistance

1000 Megohms @ 500VDC

Dielectric Strength: 750 VAC

Wiper Current: 1 mA maximum

## Mechanical Specifications

Mechanical Rotation

EUP120 -  $320^\circ \pm 10^\circ$  (end stops)

EUP125 - Continuous rotation

Shaft Diameter: 1/8"

Bushing Diameter: 1/4"

Starting Torque

0.75 oz. in. maximum

Stop Strength: 50 oz. in. (EUP120)

Rotational Life: 100,000 Turns minimum

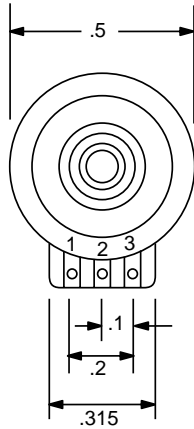
## Environmental Specifications

Operating Temperature:  $-35$  to  $+105^\circ\text{C}$

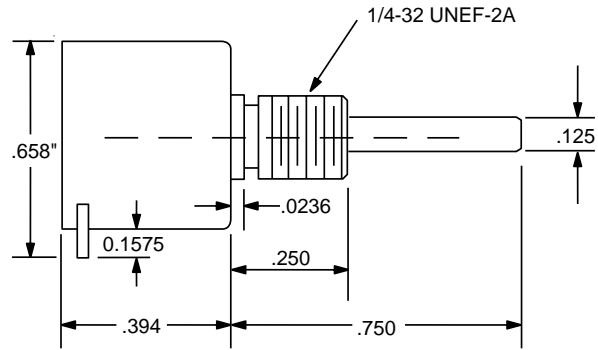
Temperature Coefficient:  $\pm 400$  PPM/ $^\circ\text{C}$

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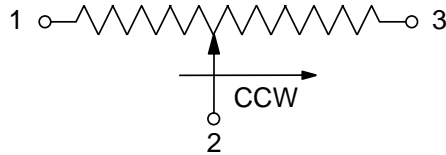
0.5 watt - 1/2 inch diameter



All dimensions are in inches



## SCHEMATIC



## Ordering Information

Example Part Number: **EUP120-10K-IP**

### EUP120

#### Model

**EUP120** = 320° rotation  
**EUP125** = Continuous rotation

### 10K

#### Resistance

**1K** = 1K ohms  
**5K** = 5K ohms  
**10K** = 10K ohms

### IP

#### Options

**IP** = IP64 protection rating  
**R** = Special resistance values  
**EA** = Special electrical angles  
**SH** = Special shafts  
**OR** = O-ring on shaft

On-line Quotations are available at <http://www.potentiometers.com>



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