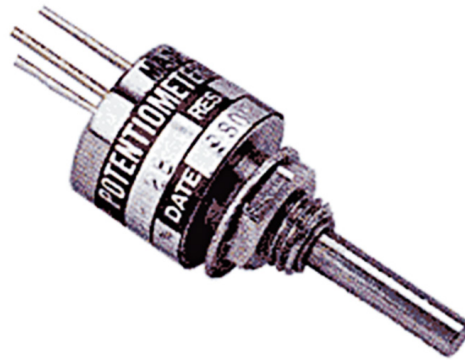


# SP12B - 1/2" Diameter Potentiometer



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



*Space-saving Series SP12B potentiometers feature  
Conductive Plastic elements, all metal housing, and gold plated wire terminals*

## Features

- Conductive Plastic resistive element
- Plated brass housing
- Stainless steel shaft
- Gold plated brass terminals

## Electrical Specifications

Resistance Range: 500 to 100K ohms standard  
Resistance Tolerance:  $\pm 15\%$   
Independent Linearity:  $\pm 2\%$   
Resolution: Essentially Infinite  
Electrical Rotation:  $300^\circ \pm 5^\circ$   
Power Rating: .2 watt  
Output Smoothness: Less than 0.1%  
Insulation Resistance: 1000 Megohms @ 500VDC  
Dielectric Strength: 500 VAC

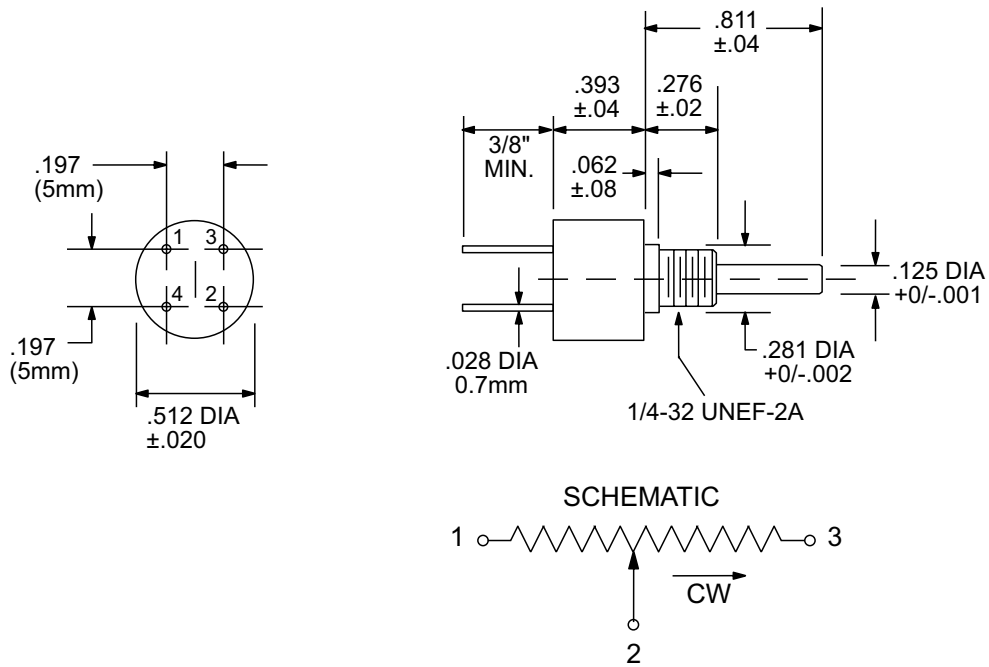
## Mechanical Specifications

Mechanical Rotation: Continuous  
Torque: 0.3 oz. in.  
Stop Strength (EUP1960): 50 oz. in.  
Bearing Type: Sleeve  
Rotational Life: 5,000,000 Turns rated

## Environmental Specifications

Operating Temperature:  $-55^\circ\text{C}$  to  $+105^\circ\text{C}$   
Temperature Coefficient:  $\pm 400$  PPM/ $^\circ\text{C}$   
Vibration: 10Hz to 2000Hz - 15G  
Shock: 50G  
Moisture Resistance:  $40^\circ\text{C}$  95%RH - 120 Hours

# SP12B - 1/2" Diameter Potentiometer



## Ordering Information

Example Part Number: **SP12B-10K-SB**

SP12B	10K	IP
<b>Model</b>	<b>Resistance</b>	<b>Options</b>
<b>SP12B</b>	<b>500</b> = 500 ohms <b>1K</b> = 1K ohms <b>5K</b> = 5K ohms <b>10K</b> = 10K ohms <b>20K</b> = 20K ohms <b>50K</b> = 50K ohms <b>100K</b> = 100K ohms	<b>CT</b> = Center Tap <b>S</b> = Servo Mount with ball bearings <b>SP</b> = Rotational Stop <b>SL</b> = Side Load Treatment

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