

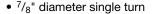
Vishay Spectrol

# <sup>7</sup>/<sub>8</sub>" (22.2 mm) Conductive Plastic Potentiometer, Bushing Mount Type



QUICK REFERENCE DATA			
Sensor type	ROTATIONAL, conductive plastic		
Output type	Output by turrets		
Market appliance	Industrial		
Dimensions	<sup>7</sup> / <sub>8</sub> " (22.2 mm)		

#### **FEATURES**





• Compact size, advanced design technology

RoHS COMPLIANT

- Offer a cost effective solution to your potentiometer requirements
- Suitable model for all industrial applications
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>

ELECTRICAL SPECIFICATIONS			
PARAMETER			
Resistance	Standard range, 1 k $\Omega$ to 50 k $\Omega$		
Tolerance	STANDARD ± 20 %	SPECIAL TO ± 10 %	
Linearity (independent)	STANDARD ± 2.0 %	SPECIAL ± 1.0 %	
Output smoothness	0.1 %	maximum	
TCR	± 600 ppm	/°C maximum	
Power rating	1.0 W at 70 °C der	ated to 0 W at 125 °C	
Electrical travel	340	0° ± 3°	
End voltage	0.5 %	maximum	
Dielectric withstanding voltage	1000 V <sub>I</sub>	<sub>RMS</sub> , 60 Hz	
Insulation resistance	1000 M	Ω, 500 V <sub>DC</sub>	

MECHANICAL SPECIFICATIONS			
PARAMETER			
Rotation	360° continuous (optional mechanical stops 340° ± 3°)		
Mounting	3/8 - 32 UNEF - 2A		
Operating torque maximum	Starting and running 3.68 mNm (0.5 oz in)		
Shaft tolerance maximum			
Runout	0.13 mm (0.005")		
End play	0.25 mm (0.010")		
Radial play	0.13 mm (0.005")		
Weight	17.5 g (0.62 oz.)		

ORDEI	ORDERING INFORMATION/DESCRIPTION							
357	В	0	10K	20 %	Α	BO50	0 P 22	e4
MODEL	STYLE	FEATURES	OHMIC VALUE	TOLERANCE ON OHMIC VALUE	LINEARITY	PACKAGING	SHAFT TYPE	LEAD FINISH
	Bushing	Non turn pin and continuous rotation				Box of 50 pieces	Shaft diameter <b>0</b> = 6.0 mm or <b>1</b> = 6.35 mm (1/4")	
		No non turn pin and continuous rotation From 1K to 50 K			X: ± 2 % A: ± 1 %		Shaft type P = Plain S = Slotted FMF (from mounting face)	
	Non turn pin, with stops on rotation		Α. Ι Ι //		Range from 12 mm to 75 mm in 1 mm increments			
		No non turn pin with stops on rotation						

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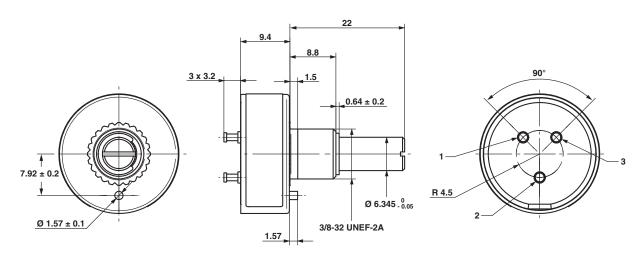
#### www.vishay.com

## Vishay Spectrol

SAP PART NUMBERING GUIDELINES						
357B	2	203	M	Х	B25	1S22
MODEL	<b>FEATURES</b>	OHMIC VALUE	TOLERANCE ON OHMIC VALUE	LINEARITY	PACKAGING	SHAFT TYPE
		203 = 20K	M: ± 20 %/K: ± 10 %	X: ± 2 %	Box of 50 pieces	

#### **DIMENSIONS** in millimeters

#### Ø 6.35 mm SHAFT VERSION

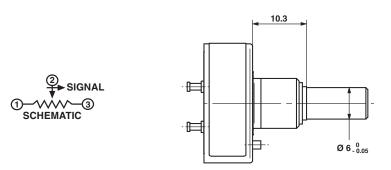


#### Ø 6.0 mm SHAFT VARIATION: METRIC

**MARKING** 

Indentification

Unit





TOLERANCES: LINEAR ± 0.50 ANGULAR ± 2°

Manufacturer's name and model number, resistance value and tolerance, linearity

Example of a marking for a standard part:

specification date code and terminal

ENVIRONMENTAL SPECIFICATIONS				
Vibration	15 g, 10 Hz to 2000 Hz			
Shock	50 <i>g</i>			
Load Life	1000 h			
Storage temperature range	-55 °C to +125 °C			
Life	5 000 000 shaft revolutions			
Materials				
Housing	Thermoplastic housing			
Bushing	Brass, nickel plated			
Rear lid	Alumina			
Shaft	Stainless steel			
Terminals	Turret type, solder plated			
Bushing mount hardware				
Lockwasher internal tooth	Steel, nickel plated			
Panel nut	Brass nickel plated			
M-1-				

RESISTANCE VALUE			
Ohms	1K, 2K, 5K, 10K, 20K, 50K		

357-0-0-1S22-103

identification.

#### Note

 Nothing stated herein shall be construed as a guarantee of quality or durability.

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## **Legal Disclaimer Notice**



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