

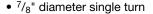
Vishay Spectrol

# <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**

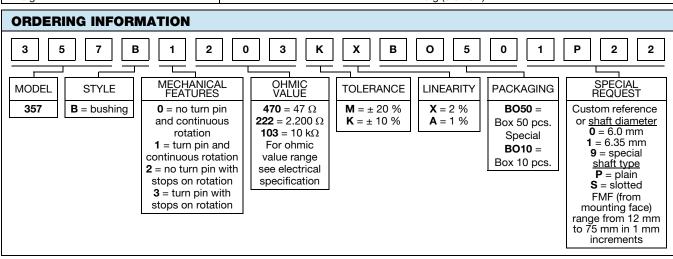




- · Compact size, advanced design technology
- Offer a cost effective solution to your potentiometer requirements
- Suitable model for all industrial applications
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912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

PARAMETER 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 ± 600 ppm/°C maximum		
CR			
Power rating	1.0 W at 70 °C der	ated to 0 W at 125 °C	
Electrical travel	340° ± 3°		
nd voltage	0.5 % maximum		
ielectric withstanding voltage	1000 V <sub>RMS</sub> , 60 Hz 1000 MΩ, 500 V <sub>DC</sub>		
Insulation resistance			

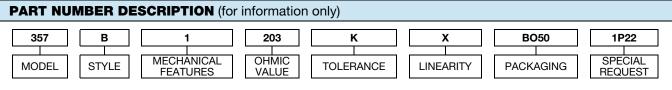
MECHANICAL SPECIFICATIONS		
PARAMETER		
Rotation	360° continuous (optional mechanical stops 340° ± 3°)	
Mounting	3/8 - 32 UNEF - 2A	
Operating torque maximum	Starting and running 3.68 mNm (0.5 oz in)	
Shaft tolerance maximum		
Runout	0.13 mm (0.005")	
End play	0.25 mm (0.010")	
Radial play	0.13 mm (0.005")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

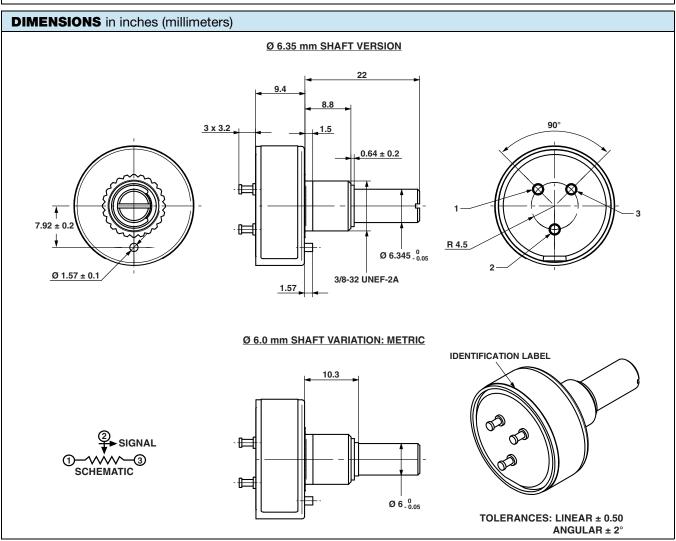


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ENVIRONMENTAL SPECIFICATIONS		
Vibration	15 g, 10 Hz to 2000 Hz	
Shock	50 <i>g</i>	
Load Life	1000 h	
Storage temperature range	-55 °C to +125 °C	
Life	5 000 000 shaft revolutions	
Materials		
Housing	Thermoplastic housing	
Bushing	Brass, nickel plated	
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	

MARKING		
Unit Identification	Manufacturer's name and model number, resistance value and tolerance, linearity specification date code and terminal identification.  Example of a marking for a standard part: 357-0-0-1S22-103	

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

Note

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



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