

Vishay Spectrol

⁷/₈" (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	⁷ / ₈ " (22.2 mm)	

FEATURES



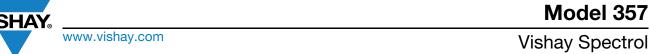


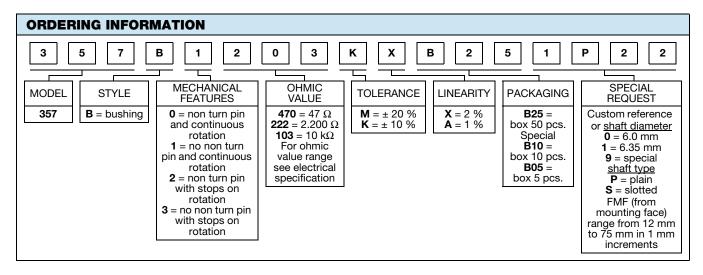
Rol

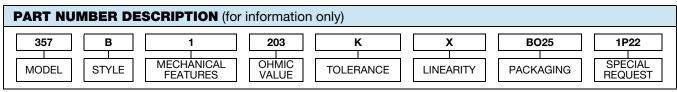
- Compact size, advanced design technology
- Offer a cost effective solution to your potentiometer requirements
- Suitable model for all industrial applications
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

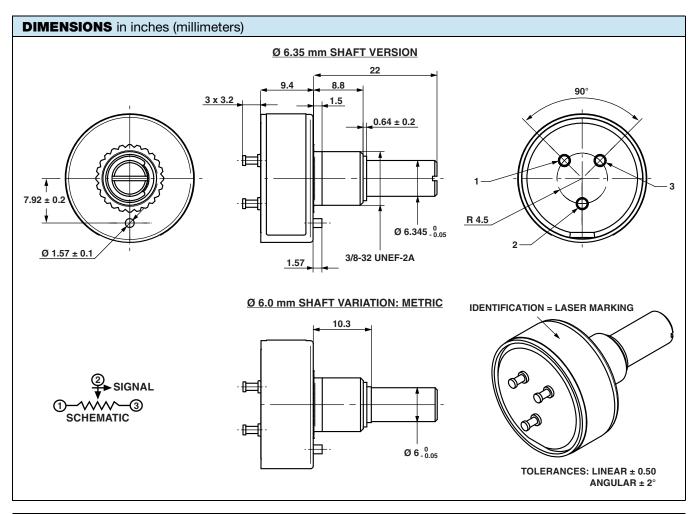
ELECTRICAL SPECIFICATIONS		
PARAMETER		
Resistance	Standard range, 1 k Ω to 50 k Ω	
Tolerance	STANDARD ± 20 %	SPECIAL TO ± 10 %
Linearity (independent)	STANDARD ± 2.0 %	SPECIAL ± 1.0 %
Output smoothness	0.1 % maximum	
TCR	± 600 ppm/°C maximum	
Power rating	1.0 W at 70 °C derated to 0 W at 125 °C	
Electrical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

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.)











www.vishay.com

Vishay Spectrol

ENVIRONMENTAL SPECIFICATIONS		
Vibration	15 g, 10 Hz to 2000 Hz	
Shock	50 g	
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	

	• Terminal identification
RESISTANCE VALUE	
Ohms	1K. 2K. 5K. 10K. 20K. 50K

Vishay logo

• Date code

• Complete part number

Example: 357B0103MXB251S22

MARKING

Identification

Unit

Note

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



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Vishay

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