

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



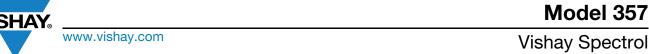


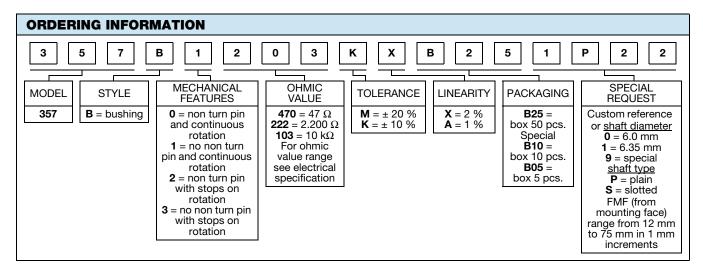
Rol

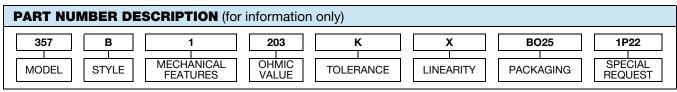
- Compact size, advanced design technology
- Offer a cost effective solution to your potentiometer requirements
- Suitable model for all industrial applications
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

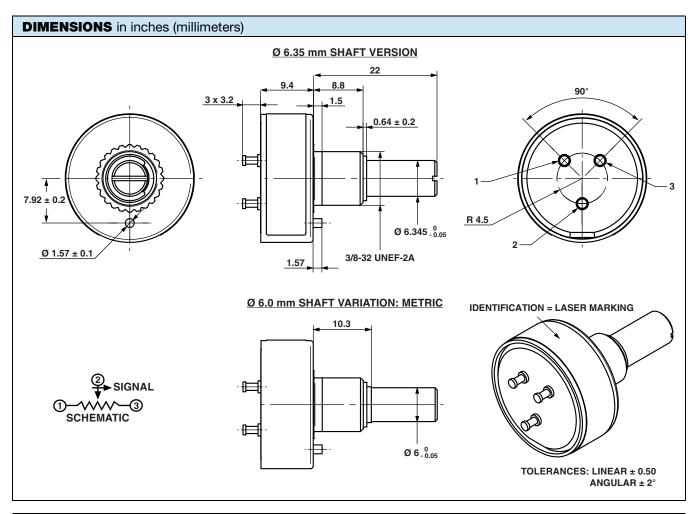
| ELECTRICAL SPECIFICATIONS | | |
|---------------------------------|---|----------------------|
| PARAMETER | | |
| Resistance | Standard range, 1 k Ω to 50 k Ω | |
| Tolerance | STANDARD ± 20 % | SPECIAL TO ± 10 % |
| Linearity (independent) | STANDARD ± 2.0 % | SPECIAL ± 1.0 % |
| Output smoothness | 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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