

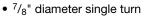
Vishay Spectrol

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

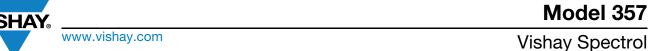


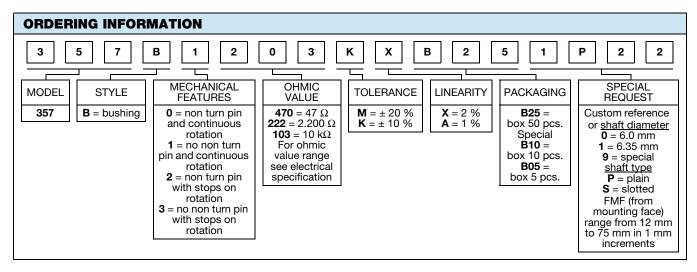


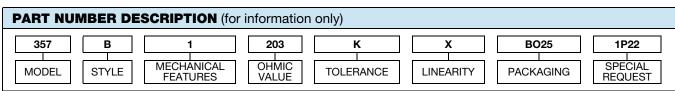
- Compact size, advanced design technology
- Offer a cost effective solution to your potentiometer requirements
- Suitable model for all industrial applications
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

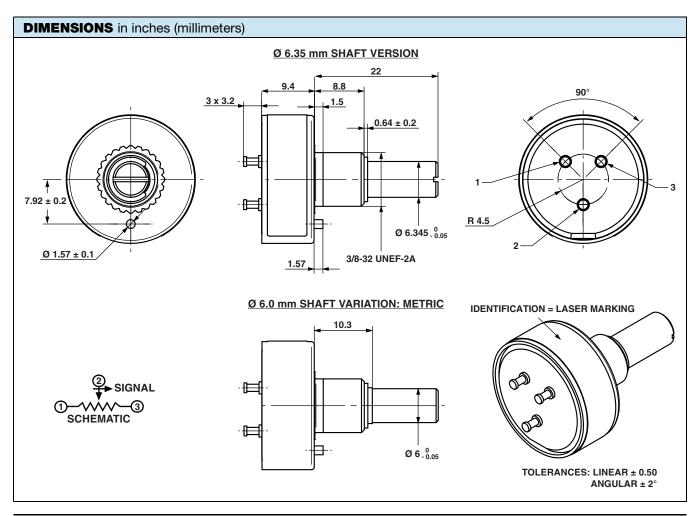
ELECTRICAL SPECIFICATIONS		
PARAMETER		
Resistance	Standard range, 1 k Ω to 50 k Ω	
Tolerance	STANDARD ± 20 %	SPECIAL TO ± 10 %
Linearity (independent)	STANDARD ± 2.0 %	SPECIAL ± 1.0 %
Output smoothness	0.1 % maximum	
TCR	± 600 ppm/°C maximum	
Power rating	1.0 W at 70 °C derated to 0 W at 125 °C	
Electrical 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			
ENVIRONMENTAL SPE	CIFICATIONS		
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		

Identification	Date code Terminal identification	
RESISTANCE VALUE		
Ohms	1K, 2K, 5K, 10K, 20K, 50K	

• Vishay logo

• Complete part number

Example: 357B0103MXB251S22

MARKING

Identification

Unit

Note

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



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.