

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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www.vishay.com

Vishay Spectrol

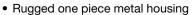
⁷/₈" (22.2 mm) Precision Industrial Potentiometer, Bushing And Servo Mount Versions, Conductive Plastic



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

FEATURES







- Long rotational life
- Wide operating temperature range
- Linearities down to ± 0.25 % special
- Optional sealed construction (bushing mount only)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

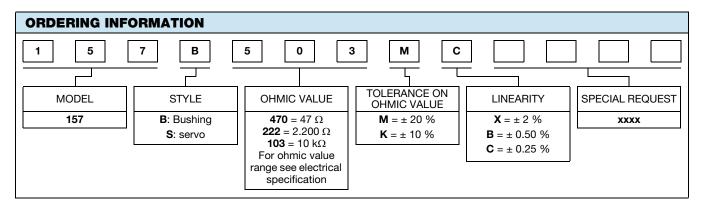
ELECTRICAL SPECIFICATIONS			
PARAMETER	MIL-PRF-39023 TEST PROCEDURES APPLY		
Resistance	1 kΩ to 100 kΩ		
Resistance Tolerance Special to	± 20 % ± 10 %		
Linearity Special to	± 2.0 % ± 0.25 %		
Temperature Coefficient of Resistance	± 600 ppm/°C		
Power Rating Derated to	1.0 W at 40 °C ambient 0 W at 125 °C		
Electrical Angle	340° ± 4°		
End Voltage	0.5 % maximum		
Dielectric Withstanding	1000 V _{RMS} , 60 Hz		
Insulation Resistance	100 M Ω minimum, 500 V _{DC}		
Output Smoothness	0.1 %		

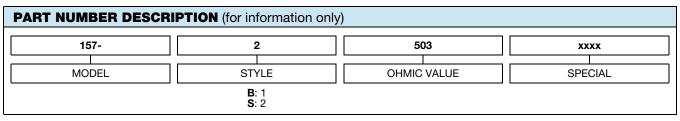
MECHANICAL SPECIFICATIONS				
PARAMETER				
Weight	0.5 oz. maximum (14 g)			
Rotation	360° (continuous)			
Mount Bearing Type	BUSHING Sleeve bearing	SERVO Ball bearing		
Operating Torque Starting Running	0.30 oz in (21.6 g - cm) 0.25 oz in (18 g - cm)	0.25 oz in (18 g - cm) 0.15 oz in (10.8 g - cm)		
Mechanical Tolerance (in/mm) (maximum)				
Shaft Runout (TIR)	0.002" (0.05 mm)	0.002" (0.05 mm)		
Pilot Dia Runout (TIR)	-	0.002" (0.05 mm)		
Lateral Runout (TIR)	0.005" (0.13 mm)	0.002" (0.05 mm)		
Shaft End Play	0.006" (0.15 mm)	0.005" (0.13 mm)		
Shaft Radial Play	0.003" (0.08 mm)	0.002" (0.05 mm)		



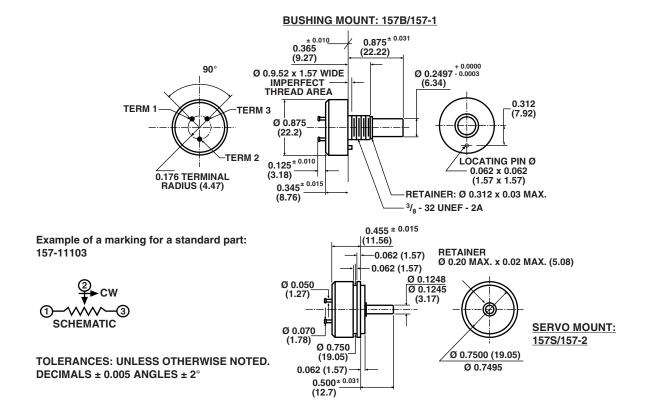
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Vishay Spectrol





DIMENSIONS in inches (millimeters)





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MATERIAL SPECIFICATIONS		
Housing/Bushing	Aluminum, anodized	
Rear Lid	Ceramic	
Shaft	Stainless steel	
Terminals	Solderable	
Bushing Mount Hardware	Lockwasher, internal tooth steel, nickel plated	
Panel Nut	Brass, nickel plated	

ENVIRONMENTAL SPECIFICATIONS				
Temperature	-55 °C to +125 °C			
Rotational Life	BUSHING 5 million shaft revolutions	SERVO 10 million shaft revolutions		
Moisture Resistant	Yes			
Vibration	15 g 10 to 2000 Hz			
Shock	50 g			
Salt Spray	96 h			
Load Life	900 h			

Note

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



Legal Disclaimer Notice

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