Vishay Spectrol



Precision Industrial Potentiometer



FEATURES

- High Quality
- Short Length Behind Panel (11/32")
- Rugged One Piece Metal Housing
- Stainless Steel Shaft
- · Long Rotational Life
- Wide Operating Temperature Range
- Linearities to ± 0.25% Special
- Optional Sealed Construction (Bushing Mount Only)

ELECTRICAL SPECIFICATIONS			
PARAMETER	MIL-PRF-39024 TEST PROCEDURES APPLY		
Resistance	1KΩ to 100		
Resistance Tolerance Special to	± 20% ± 10%		
Linearity Special to	± 2.0% ± 0.25%		
Temperature Coefficient of Resistance	± 600ppm/°C		
Power Rating Derate to	1.0 watts at 40°C Ambient 0 watts at 125°C		
Rotation	340° ± 4°		
End Voltage	0.5% maximum		
Dielectric Withstanding	1,000V _{RMS} , 60Hz		
Insulation Resistance	100MΩ minimum, 500VDC		
Output Smoothness	0.1%		

MECHANICAL SPECIFICATIONS		
PARAMETER		
Weight	0.5 oz maximum	
Rotation	360° (Continuous)	
Mount	BUSHING	SERVO
Bearing Type	Sleeve Bearing	Ball Bearing
Operating Torque		
Starting	0.30 oz - in	0.25 oz - in
Running	0.25 oz - in	0.15 oz - in
Mechanical Tolerance (in/mm) (maximum)		
Shaft Runout (TIR)	0.002 in	0.002 in
Pilot Dia Runout (TIR)	_	0.002 in
Lateral Runout (TIR)	0.005 in	0.002 in
Shaft End Play	0.006 in	0.005 in
Shaft Radial Play	0.003 in	0.002 in

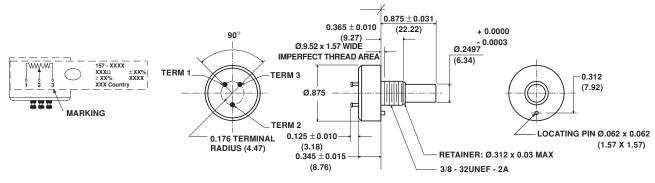
ORDERING INFORMATI	ON		
157	1	1	xxx
MODEL	MOUNTING	NUMBER OF SECTIONS (SINGLE SECTION ONLY)	RESISTANCE EIA CODE
	1. Bushing		
Example: 157 - 1 - 1 - XXX	2. Servo		

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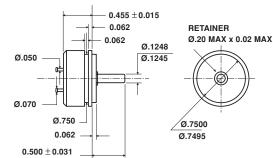
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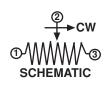
DIMENSIONS in inches (mm)

BUSHING MOUNT



SERVO MOUNT





ALL DIMENSIONS ARE IN INCHES TOLERANCES: UNLESS OTHERWISE NOTED DECIMALS $\pm\,0.005$ ANGLES $\pm\,2^\circ$

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		

INVIRONMENTAL SPECIFICATIONS			
Temperature	- 55°C	- 55°C + 125°C	
Rotational Life	BUSHING 10 million shaft Revolutions	SERVO 10 million shaft Revolutions	
Moisture Resistant	Y	Yes	
Vibration	15g 10 t	15g 10 to 2000Hz	
Shock	5	50g	
Salt Spray	96 F	96 Hours	
Load Life	900	900 Hours	

STANDARD RESISTANCE VALUES		
EIA CODE	RESISTANCE	
102	1ΚΩ	
202	2ΚΩ	
502	5ΚΩ	
103	10ΚΩ	
203	20ΚΩ	
503	50KΩ	
104	100ΚΩ	

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Vishay

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