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 \pm 0.25% Special
- Optional Sealed Construction (Bushing Mount Only)

PARAMETER	MIL-PRF-39024 TEST PROCEDURES APPLY	
Resistance	1KΩ to 100	
Resistance Tolerance	± 20%	
Special to	± 10%	
_inearity	± 2.0%	
Special to	± 0.25%	
emperature Coefficient of Resistance	± 600ppm/°C	
Power Rating	1.0 watts at 40°C Ambient	
Derate to	0 watts at 125°C	
lotation	340° ± 4°	
nd Voltage	0.5% maximum	
Dielectric Withstanding	1,000V _{RMS} , 60Hz	
nsulation Resistance	100MΩ minimum, 500VDC	
Putput 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
Example: 157 - 1 - 1 - XXX	1. Bushing 2. Servo		



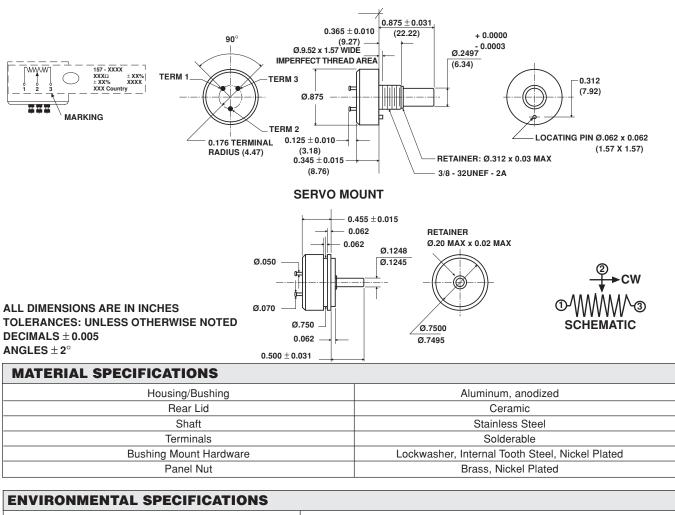
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BUSHING MOUNT

Model 157

Vishay Spectrol

DIMENSIONS in inches (mm)



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

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



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