Model 132

Vishay Spectrol

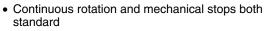


1⁵/₁₆" (33.3 mm) Low Cost Industrial Single Turn Wirewound, Bushing Mount Type



FEATURES

- Suitable model for all industrial applications
- Center tap available



• Large electrical angle: $352^{\circ} \pm 2^{\circ}$

PARAMETER			MIL-	PRF-12934	TEST PROCEDURES	APPLY		
		ST	ANDARD)		SPECIAL		
Total Resistance	5Ω to 20 k Ω			to 35 kΩ				
Tolerance: 50 Ω and Above	± 3 %			±1%				
Below 50 Ω		± 5 %			± 3 %			
Linearity (Independent)		STANDARD			BEST PRACTICAL			
Total Resistance								
5 Ω to 20 Ω		± 1.0 %			± 0.75 %			
20 Ω to 200 Ω		± 1.0 %			± 0.50 %			
200 Ω and Above		± 0.5 %			± 0.25 %			
Noise		100 Ω ENR						
Power Rating		40 °C ambient						
	2.75 W			ed to zero at 125 °C	+ 105 °C			
Electrical Angle				uerale				
Continuous Rotation					352° ± 2°			
Stops	332 ± 2 $340^{\circ} \pm 5^{\circ}$							
Insulation Resistance		1000 MΩ minimum at 500 V _{DC}						
Dielectric Strength		1000 V _{BMS} , 60 Hz						
Absolute Minimum Resistant	ce	1.0 % of total resistance or 0.5 Ω whichever is greater						
Minimum Voltage	0.5 % maximum							
Temperature Coefficient of F	Resistance		Re	efer to standa	ard resistance element	data		
MATERIAL SPECIF	ICATIONS] [ENVIR	ONMENTAL SPI	ECIFICATIONS		
Housing	Molded glass f	filled thermoplastic		Vibration		15 Gs thru 2000 Hz		
Rear Lid	Glass filled t	hermoset plastic		Shock		50 g		
Shaft	Stainless ste	el, non-magnetic		Salt Spray		48 h		
Terminals		l for solderability, assivated		Rotational Life		4011		
Mount Hardware			_	Shaft Revo	olutions	500 000		
Lockwasher Internal Tooth: Panel Nut:		ickel plated iickel plated		Operating Temperature Range		- 55 °C to + 125 °C		
ORDERING INFORI	MATION/DE	SCRIPTION	<u> </u>					
132	0		0		20K	BO10		
MODEL	MECHANIC OPTION	AL OTH		ONAL S	OHMIC VALUE	PACKAGING		
	0. Continuo 2. Stops	ous 0. Standard (end ta		hin 5° of		Box of 10 pieces		
Other characteristics will be a tolerance, special resistance	standard as desc tolerance, non-l	ribed on this specifi near functions, etc.	cation sh , please s	eet. If specia state these of	l characteristics are rec n your order.	quired such as special lineari		
SAP PART NUMBE	RING GUID	ELINES						
132	2		1		103	B10		
-	MODEL MECHANICAL ELEC OPTIONS OPT							

1: With center tap

103: 10K

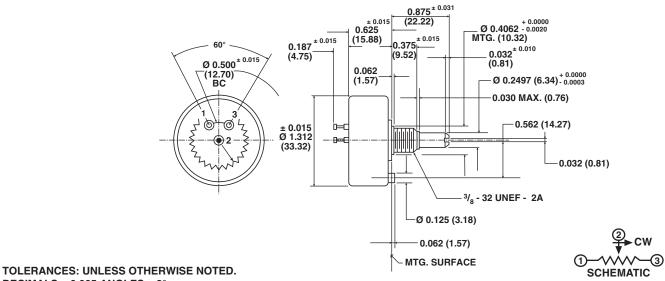
2: With stops

Box of 10 pieces



1^{5/}₁₆" (33.3 mm) Low Cost Industrial Single Turn Vishay Spectrol Wirewound, Bushing Mount Type

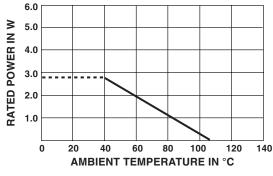
DIMENSIONS in inches (millimeters)

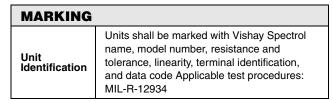


DECIMALS ± 0.005 ANGLES ± 2°

MECHANICAL SPECIFICATIONS							
PARAMETER							
Rotation	360° (continuous) o	360° (continuous) or $340^{\circ} \pm 5^{\circ}$ (stops)					
Bearing Type	Slee	Sleeve					
Torque (Maximums)	STARTING 1.0 oz in (72 g - cm)	RUNNING 0.7 oz in (50.40 g - cm)					
Runouts (Maximums)							
Shaft Runout (TIR)	0.002" (0	0.002" (0.05 mm)					
Pilot Dia. Runout (TIR)	0.003" (0	0.003" (0.08 mm)					
Lateral Runout (TIR)	0.005" (0	0.005" (0.13 mm)					
Shaft End Play	0.008" (0.20 mm)						
Shaft Radial Play	0.003" (0.08 mm)						
Weight	1.0 oz. maxim	1.0 oz. maximum (28.35 g)					
Stop Strength	8.0 in - lbs (9.21 kg - cr	8.0 in - lbs (9.21 kg - cm) (stops version only)					







RESISTANCE ELEMENT DATA									
RESISTANCE VALUES (Ω)	RESO- LUTION (%)	ohms Per Turn	MAXIMUM CURRENT AT 40 °C AMBIENT (mA)	MAXIMUM VOLTAGE ACROSS COIL (V)	WIRE TEMP. COEF. (ppm/°C)				
5	0.419	0.021	742	3.71	800				
10	0.327	0.032	524	5.24	800				
20	0.280	0.056	371	7.42	800				
50	0.290	0.145	234	11.7	20				
100	0.251	0.251	166	16.6	20				
200	0.212	0.424	122	24.4	20				
500	0.161	0.806	74.2	37.1	20				
1K	0.150	1.50	52.4	52.4	20				
2K	0.132	2.64	37.1	74.2	20				
5K	0.107	5.34	23.4	117	20				
10K	0.080	7.98	16.6	166	20				
20K	0.067	13.4	12.2	244	20				
35K	0.057	20.0	8.88	311	20				



Vishay

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