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Vishay Spectrol

1 ⁵/₁₆" (33.3 mm) Industrial Single Turn, Bushing Mount, Conductive Plastic Potentiometer



QUICK REFERENCE DATA		
Sensor type	ROTATIONAL, conductive plastic	
Output type	Output by turrets	
Market appliance	Industrial	
Dimensions	1 ⁵ / ₁₆ " (33.3 mm)	

FEATURES





Continuous rotation and mechanical stops both standard

RoHS

- Suitable model for all types of industrial applications
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

ELECTRICAL SPECIFICATIONS			
PARAMETER	MIL-PRF-39023 TEST PROCEDURES APPLY		
	STANDARD	SPECIAL	
Ohmic Value Range	1 k Ω to 50 k Ω	1 k Ω to 50 k Ω	
Tolerance	± 10 %	± 5 %	
Linearity (independent)	STANDARD	BEST PRACTICAL	
	± 0.5 %	± 0.25 %	
Output Smoothness	0.1 % maximum		
Power Rating	40 °C ambient		
		2 W	
	derated to	zero at 125 °C	
Electrical Angle			
Continuous	345° ± 4°		
Stops	340° ± 5°		
Insulation Resistance	1000 M Ω minimum at 500 V $_{DC}$		
Dielectric Strength	1000 V _{RMS} , 60 Hz		
Absolute Minimum Resistance	1.0 % of total resistance		
Minimum Voltage	0.5 % maximum		
Temperature Coefficient of Resistance	± 600 ppm/°C maximum		

MATERIAL SPECIFICATIONS		
Housing	Molded glass filled thermoplastic	
Rear Lid	Glass filled thermoset plastic	
Shaft	Stainless steel, non-magnetic	
Terminals	Brass, plated for solderability, non-passivated	
Mount Hardware Lockwasher Internal Tooth: Panel nut:	Steel, nickel plated Brass, nickel plated	

ENVIRONMENTAL SPECIFICATIONS	
15 g thru 2000 Hz	
50 <i>g</i>	
48 h	
O million	
2 million	
-55 °C to +125 °C	

Note

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

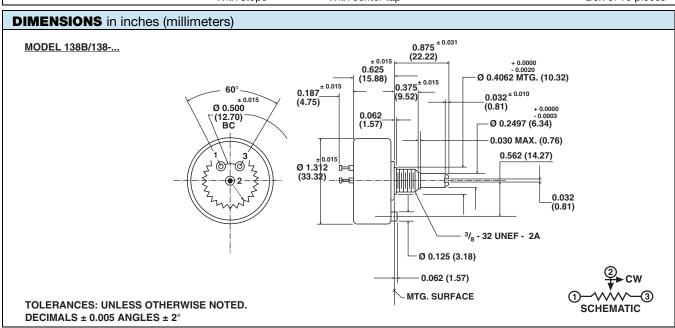
ORDERING	INFORMATION	I/DESCRIPTION			
138	В	0	0	20K	BO10
MODEL	BUSHING MOUNT	MECHANICAL OPTIONS	OTHER OPTIONAL FEATURES	RESISTANCE CODE	PACKAGING
		0. Continuous 2. Stops	0. Standard (end taps)1. Center tap (within5° of electrical center)		Box of 10 pieces

Other characteristics will be standard as described on this specification sheet. If special characteristics are required such as special linearity tolerance, special resistance tolerance, non-linear functions, etc., please state these on your order.



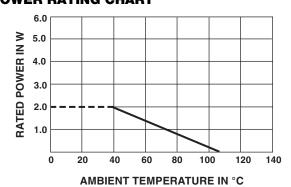
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MECHANICAL SPECIFICATIONS				
PARAMETER				
Rotation	360° (continuous	360° (continuous) 340° ± 5° stops		
Bearing Type	Sle	Sleeve		
Torque (maximums)	STARTING 1.0 oz in (72 g - cm)	RUNNING 0.7 oz in (50.40 g - cm)		
Runouts (maximums)				
Shaft Runout (TIR)	0.002" (0.002" (0.05 mm)		
Pilot Dia. Runout (TIR)	0.003" (0.003" (0.08 mm)		
Lateral Runout (TIR)	0.005" (0.005" (0.13 mm)		
Shaft End Play	0.008" (0.008" (0.20 mm)		
Shaft Radial Play	0.003" (0.003" (0.08 mm)		
Weight	1.0 oz. maxiı	1.0 oz. maximum (28.35 g)		
Stop Strength	8.0 in - lbs (9.21 kg - c	8.0 in - lbs (9.21 kg - cm) (stops version only)		

POWER RATING CHART



MARKING		
Unit Identification	Units shall be marked with Vishay Spectrol name, model number, resistance and tolerance, linearity, terminal identification, and data code Applicable test procedures: MIL-R-39023 Example of a marking for a standard part: 138-2-0-502	



Legal Disclaimer Notice

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Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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