

7/8" (22.2 mm) Ten Turn Wirewound Precision Potentiometer with a Plastic Shaft


FEATURES

- 10 standard resistance values
- Plastic shaft
- Rugged integrated construction
- 0.25 % linearity
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

QUICK REFERENCE DATA

Sensor type	ROTATIONAL, multi turn wirewound
Output type	Output by turrets
Market appliance	Industrial
Dimensions	7/8" (22.2 mm)

ELECTRICAL SPECIFICATIONS

PARAMETER	
Total resistance	Range 100 Ω to 100 kΩ, tolerance ± 5 %
Linearity (independent)	± 0.25 %
Noise	100 Ω ENR maximum
Electrical angle	3600° + 10° - 0°
Power rating	2.0 W at 70 °C derated to zero at 125 °C
Insulation resistance	1000 MΩ minimum, 500 V _{DC}
Dielectric strength	1000 V _{RMS} , 60 Hz
Absolute minimum resistance	Not to exceed 0.10 % of total resistance or 1 Ω, whichever is greater
Temperature coefficient	20 ppm/°C (wire only)
End voltage	0.25 % of total applied voltage maximum

ORDERING INFORMATION/DESCRIPTION

536	B	10K	BO10	e4
MODEL	MOUNTING	OHMIC VALUE	PACKAGING	LEAD FINISH
	B: Bushing		Box of 10 pieces	

SAP PART NUMBERING GUIDELINES

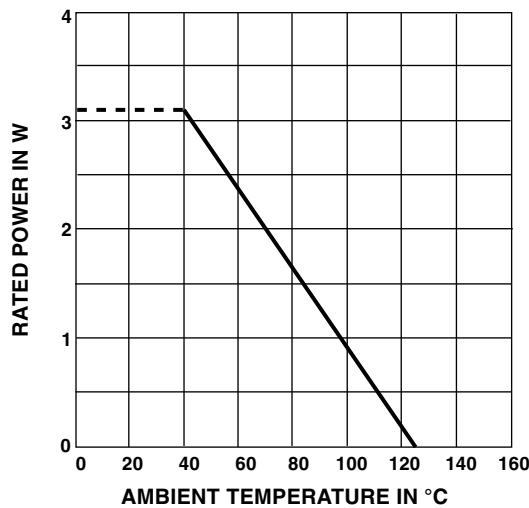
536	B	103	B10
MODEL	STYLE	OHMIC VALUE	PACKAGING



MATERIAL SPECIFICATIONS	
Front lid	Stainless steel and nickel plated brass bushing
Housing	Thermoplastic nylon glass filled
Rear lid	Thermo-glass filled
Shaft	Thermo-glass filled
Terminals	Brass plated for solderability
Mounting hardware Lockwasher internal tooth: Panel nut:	Steel nickel plated Brass, nickel plated

ENVIRONMENTAL SPECIFICATIONS	
Vibration	15 g thru 2000 Hz
Shock	50 g
Rotational life	1 million shaft revolutions
Load life	900 h
Operating temperature range	- 55 °C to + 125 °C

POWER RATING CHART



RESISTANCE ELEMENT DATA				
STANDARD RESISTANCE VALUES (Ω)	RESOLUTION (%)	OHMS PER TURN	MAXIMUM CURRENT AT 70 °C AMBIENT (mA)	MAXIMUM VOLTAGE ACROSS COIL (V)
100	0.060	0.0603	141.0	14.1
200	0.037	0.0746	100.0	20.0
500	0.031	0.1520	63.2	31.6
1K	0.025	0.2459	44.7	44.7
2K	0.021	0.4113	31.6	63.2
5K	0.016	0.8206	20.0	100.0
10K	0.017	1.7230	14.1	141.0
20K	0.015	3.0160	10.0	200.0
50K	0.009	4.6690	6.32	316.0
100K	0.007	7.4560	4.47	447.0

MARKING	
Unit identification	Units shall be marked with Vishay Spectrol name and model no, resistance, resistance tolerance, linearity, terminal identification and date code



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