

Vishay Spectrol

1/2" (12.7 mm) Conductive Plastic & Cermet Potentiometers



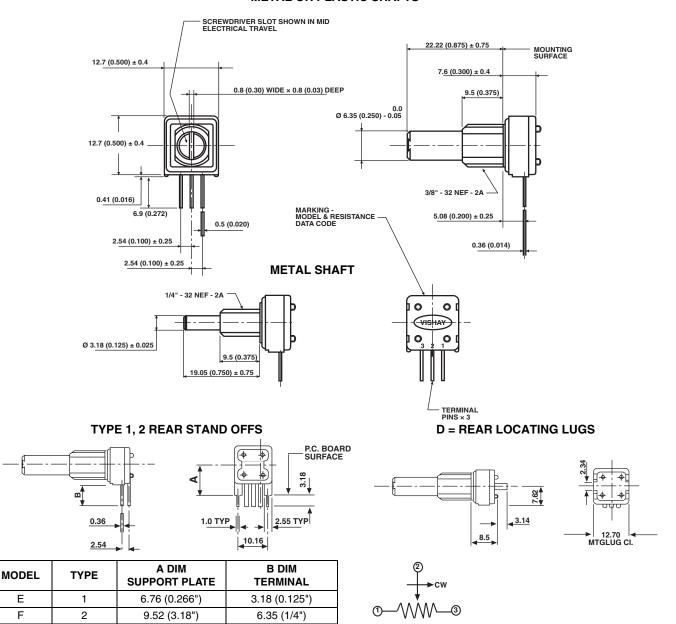
FEATURES



- Model 248/249 Retains the Proven High performance characteristics in a more cost effective package
- This model is destined to become the first choice when seeking high quality
- Cost Effective Panel Potentiometers
- P.C.B. Mounting Potentiometers

DIMENSIONS in millimeters (inches)

METAL OR PLASTIC SHAFTS



Vishay Spectrol

1/2" (12.7 mm) Conductive Plastic & Cermet Potentiometers



ELECTRICAL SPECIFICATIONS		
PARAMETER	MODEL 248	MODEL 249
Element Type	conductive plastic	cermet
Total Resistance Range	500 Ω to 500 kΩ	
Resistance Tolerance	± 20 %	± 10 %
Power rating	0.5 watts at 70 °C	1.0 watts at 70 °C
	Both derated to zero at 125 °C	
Temperature Coefficient of Resistance	± 1000 ppm/°C	± 100 ppm/°C
Linearity Tolerance	± 5 % Independent	
Contact Resistance Variation	Both 3 % of the Total Resistance	
Insulation Resistance	1000 MΩ minimum, 500 VDC	
Dielectric Strength	750 V _{RMS} minimum 50/60 Hz	
End Resistance	2Ω maximum each end	
Effective Electrical Angle	265° ± 5°	

MECHANICAL SPECIFICATIONS

Rotation $295^{\circ} \pm 5^{\circ}$

Torque Starting and Running 1.5 to 18.75 mNm **End Stop Torque** 0.35 Nm (50 oz-in)

Weight 8.3 g's (0.29 oz)

 $(1/4^{\circ} \times 7/8^{\circ})$ FMF metal shaft)

Max Tightening Torque 0.50 Nm (1/4" Bush) 0.70 Nm (3/8" Bush)

STANDARD RESISTANCE ELEMENT DATA

Ohms 500R, 1K, 2K, 5K, 10K, 25K, 50K, 100K, 250K, 248/249: 500K, 1M

MARKING

Unit identification: Manufacturer's name and model number, EIA resistance value coding, tolerance, data code and terminal Identification.

ENVIRONMENTAL SPECIFICATIONS

Temperature Range 390 meters/sec/sec, Shock 1000 bumps **Vibrations**

Rotational Life (Electrical)

248: 249:

Load Life at 70 °C

Materials Shaft:

Housing & Rear Lid:

Terminals:

Mounting Hardware

- 55 °C to + 125 °C 98 meters/sec/sec. 0.75 mm, 10 to 500 Hz

50 000 cycles 25 000 cycles 1000 hours

Plated brass or plastic Plastic flame retardant Phosphor bronze, solder plated Lockwasher: Steel,

nickel plated Panel nut: Brass, nickel

plated

PACKAGING

Carton box of 50, code: BO50

ORDERING INFORMATION JΕ 8 08 103 248 MODEL SPECIAL FEATURES **SHAFT OPTIONS FMF SHAFT OPTIONS** EIIA RESISTANCE CODE LEAD FINISH 248/249 **08:** 19.05 (3/4") for e3: pure Sn D: Rear locating lugs 7: 6.35 (1/4") plastic E: Type 1 rear stand offs 8: 3.18 (1/8") plated 3.18 (1/8") plated brass F: Type 2 rear stand offs brass 10: 22.22 (7/8") for 6.35 (1/4") plated brass J: CW audio taper 9: 6.35 (1/4") plated or plastic versions brass Example: 248 - JE - 8 - 08 - 103

SAP PART NUMBERING GUIDELINES		
2 4 8 B B H S 0 E B 2 5 1 0 3 M L MODEL BUSHING SHAFT SHAFT LEADS PACKAGING OHMIC VALUE/TOL/LAW OR SPECIAL		
See the end of this data book for conversion tables		

www.vishay.com

112

For technical questions, contact: sfer@vishav.com

Document Number: 57054 Revision: 30-Jun-06

Legal Disclaimer Notice



Vishay

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www.vishay.com Revision: 08-Apr-05