

248, 249

Vishay Spectrol

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



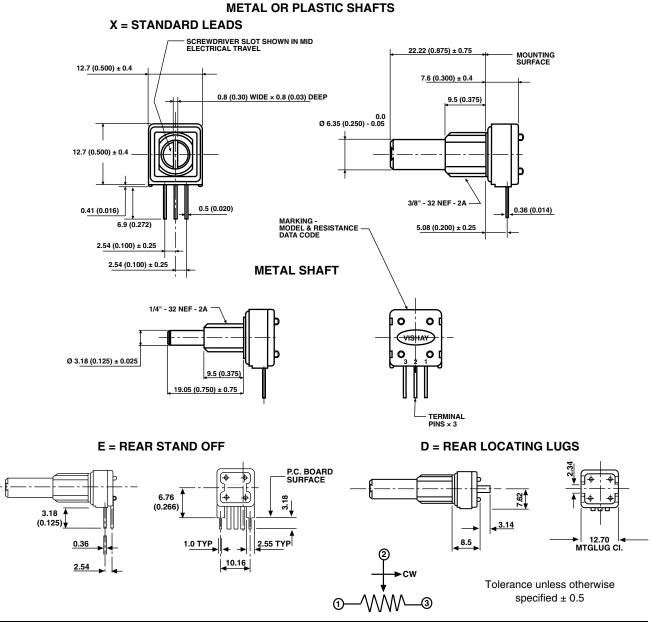
FEATURES

• Model 248/249 retains the proven high performance characteristics in a more cost effective package



- Cost effective panel potentiometers
- P.C.B. mounting potentiometers

DIMENSIONS in millimeters (inches)



Document Number: 57054 Revision: 02-Jul-07 **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 1 MΩ			
Resistance Tolerance	± 20 %	± 20 % (on request ± 10 %)		
Power rating	0.5 W at 70 °C	1.0 W 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	5 % 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	$265^{\circ} \pm 5^{\circ}$			

MECHANICAL SPECIFICATIONS

500K, 1M

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" × 7/8" FMF metal shaft) Max Tightening Torque 0.50 Nm (1/4" Bush) 0.70 Nm (3/8" Bush) Sealing IP50

500R, 1K, 2K, 5K, 10K, 25K, 50K, 100K, 250K,

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	- 55 °C to + 125 °C	
Shock	390 meters/sec/sec.	
	1000 bumps	
Vibrations	98 meters/sec/sec.	
	0.75 mm, 10 to 500 Hz	
Rotational Life (Electrical)	25 000 cycles	
Load Life at 70 °C	1000 hours	

STANDARD RESISTANCE ELEMENT DATA PACKAGING

Carton box of 50, code: BO50

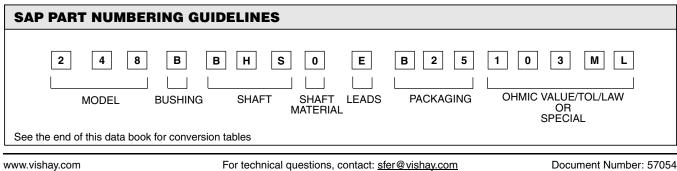
MARKING

248/249:

Ω

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

ORDERING INFORMATION							
248 MODEL	JE SPECIAL FEATURES	8 SHAFT OPTIONS	08 FMF SHAFT OPTIONS	103 EIA RESISTANCE CODE	e3 LEAD FINISH		
248/249	D: Rear locating lugs E: Rear stand off J: CW audio taper	7: 6.35 (1/4") plastic 8: 3.18 (1/8") plated brass 9: 6.35 (1/4") plated brass	08: 19.05 (3/4") for 3.18 (1/8") plated brass 10: 22.22 (7/8") for 6.35 (1/4") plated brass or plastic versions		e3: pure Sn		
Example: 2	48 - JE - 8 - 08 - 103						



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For technical questions, contact: sfer@vishay.com

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Vishay

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