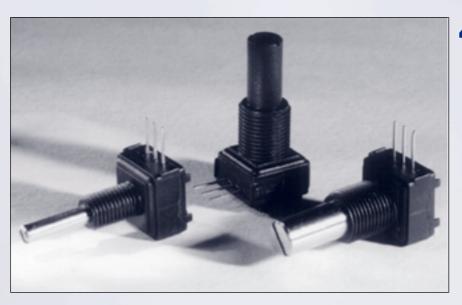
Model



248&249 Conductive Plastic

& Cermet Potentiometers



Based on the highly successful MODEL 148/149 series, the MODEL 248/249 retains the proven high performance characteristics in a more cost effective package.

With its many features. the MODEL 248/249 series is destined to become the first choice when seeking high quality, cost effective panel or P.C.B. mounting potentiometers.

RESISTANCE VALUES

ELECTRICAL

Element Type: 248: Conductive Plastic 249: Cermet

Total Resistance Range: 500 ohms to 500K ohms

Resistance Tolerance: 248: ±20% 249: ±10%

Power Rating: 248: 0.5 watts @ 70°C 249: 1.0 watts @ 70°C Both derated to zero @ 125°C

Temperature Coefficient of Resistance: 248: ±1000ppm/°C 249: ±100ppm/°C

Linearity Tolerance: ±5% Independent

Contact Resistance Variation: Both 3% of the Total Resisance

Insulation Resistance: 1000 M Ω minimum, 500VDC

Dielectric Strength: 750 volts RMS minimum 50Hz

End Resistance: 2 ohms maximum each end

Effective Electrical Angle: $265^{\circ} \pm 5^{\circ}$

MECHANICAL

Rotation: 295° ±5°

Torque: Starting and Running 1.5 to 18.75mNm

End Stop Torque: 0.35Nm (50oz in)

Weight: 8.3 grammes (0.29 oz) (1/4" x 7/8" FMF metal shaft)

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

ENVIRONMENTAL

Temperature Range: Shock: Vibrations:

Rotational Life: (Electrical)

Load Life @ 70°C:

Materials: Shaft: Housing & Rear Lid: Terminals: Mounting hardware: -55°C to +125°C 390 metres/s/s, 1000 bumps 98 metres/s/s. 0.75mm, 10 to 500Hz

248: 50,000 cycles 249: 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

Ohms: 248/249: 500R, 1K, 2K5, 5K, 10K,

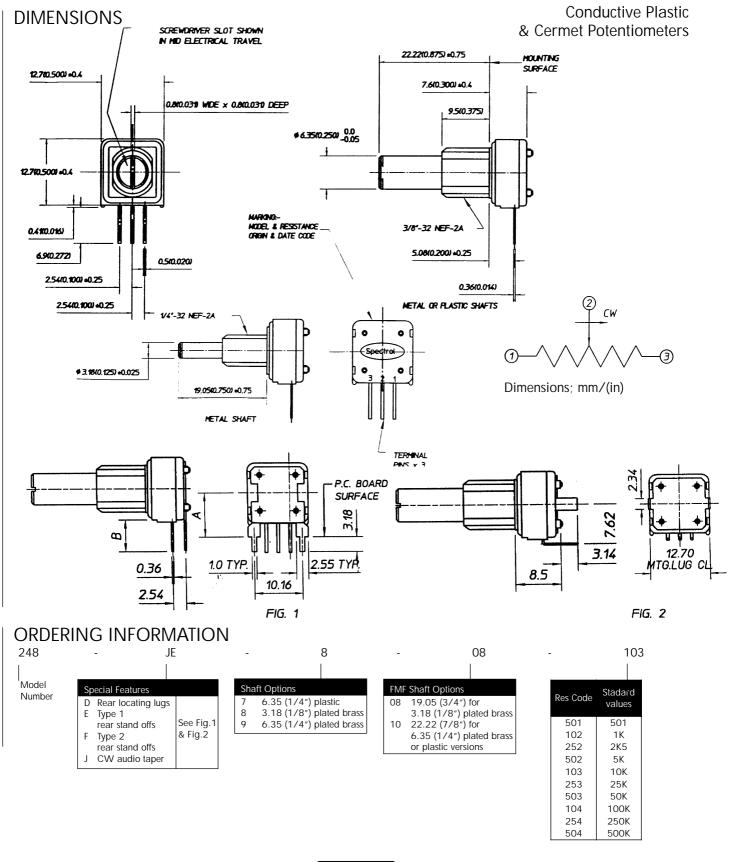
248/249: 500R, TK, 2K5, 5K, T0K 25K, 50K, 100K, 250K, 500K

MARKING

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

Model

248 & 249







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