



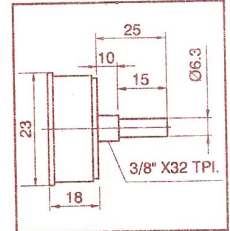
Efficient Toroidal Coil Corporation

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WIRE WOUND SINGLE TURN POTENTIOMETER TYPE ETC-1

SPECIFICATION SHEET



ELECTRICAL

Resistance Range	■ 1 ohm to 30k ohms
Resistance Law	■ Linear
Resistance Tolerance	■ $\pm 5\%$ Standard, (Closer tolerance possible)
Independent Linearity	■ $\pm 5\%$ Standard, (Closer tolerance possible)
Power Rating	■ 1 WATT at 40°C derated to 0 watts @100°C
Maximum Working Voltage	■ 250V
Dielectric Strength	■ 500V
Electrical Travel	■ $265^\circ \pm 5^\circ$
End Resistance	■ 0.5 ohms or 0.1% whichever greater.
Noise (ENR)	■ Less than 100 ohms.
Temperature Co-efficient	■ $\pm 40\text{PPM}/^\circ\text{C}$ to $\pm 150\text{PPM}/^\circ\text{C}$
Temperature Range	■ -40°C to $+100^\circ\text{C}$
Resolution	■ $\pm 0.05\%$ to 2.2% Depending on resistance value.
Dual / Ganging	■ Up to 3 cups possible (Add 18mm each cup)

MECHANICAL

Housing	■ Thermosetting bakelite body
Mechanical Angle	■ $285^\circ \pm 10^\circ$
Starting Torque	■ 70 Grams to 250 Grams/cm
End Stop Strength	■ More than 5 Kg.
Life Minimum	■ 25000 cycles to 1,00,000 cycles depending on resistance value.
Sealing	■ Non tropicalised standard tropicalised version confirming to DEF 5121-A available
Shaft Length	■ 25 mm from mounting face. (Other length possible)