CM5-N

5 DECADE CAPACITANCE COMPENSATION BOX TO COMPLIMENT THE RM6-N

A five decade capacitance box to compliment the RM6-N range of resistance decades. Styled in the same ergonomic desk case, the CM5-N is a useful addition to any laboratory, as well as for industrial and educational use. The required capacitance is set by means of rotary switches with skirted knobs and stators giving a clear indication of the dial setting. The capacitors are a combination of polycarbonate and polystyrene, generously rated minimum 160 Vdc with a good dissipation factor and high insulation. A useful feature of this unit is the residual capacitance being compensated for on the 10 x 100pF and 10 x 1nF dials so that the actual value of the dial setting appears at the terminals.

KEY FEATURE	CM5-N
5 decades	∎
Range 100 pF to 11.111 uF	∎
Accuracy 5%	∎
Residual capacitance 30 pF at zero setting	∎
Residual capacitance compensation	∎

CM5-N SPECIFICATIONS

Decades	Accuracy
10 x 100pF	± 5%
10 x 1nF	± 5%
10 x 10nF	± 5%
10 x 100nF	± 5%
10 x 1mF	± 5%

Dimensions
330mm x 240mm x 200mm (W H D) approx

Mass
6.5kg

Resistors
Metal film 0.6 ohm at 70 °C
Temperature coefficient ±100 p.p.m. / °C

Switches
Contact material silver plated brass. Contact resistance = 10 milli ohm with positive click mechanism. Insulation Resistance = 50,000 Mega ohm

Resistance

Temperature Co-efficient: ±3ppm / +20°C to +85°C ±5ppm max over –55°C to + 125°C 0.1, 0.01, & 0.001 dials 10ppm/°C

Full Load Stability: ±35ppm/10,000 hours ±50ppm/26,000 hours

No Load Stability: ±25ppm/10,000 hours ±35ppm/26,000 hours
Over full temperature range; -50°C to +125°C

Power Rating: 0.33 watt (+85°C) 0.25 watt (+110°C)

Maximum Continuous Working Voltage:
Up to 250 V dc

Noise: Essentially non-measurable <1.5 mV/°C

Thermal E.M.F.: <0.4mV/°C typical

Encapsulation: Moulded epoxy

Windings: Exclusive 'air cushioned' technique provides virtually stressless elements for improved performance. Non inductively wound. Direction of winding reversed at half turns point