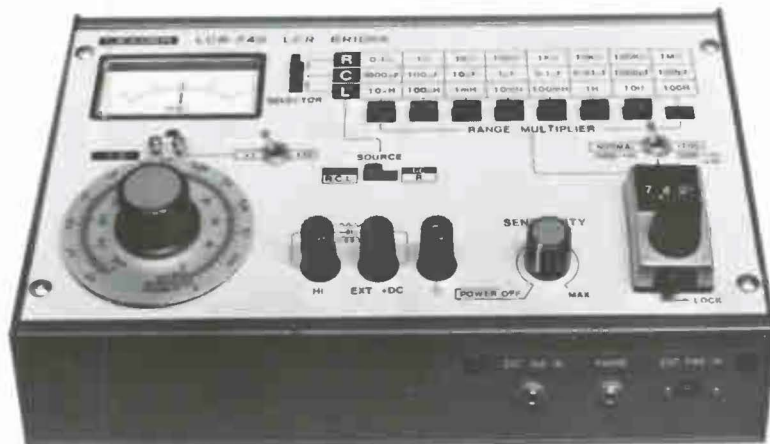


LCR-740 LCR Bridge

- 0.5% Basic Accuracy
- 0.1 μ H, 1 pF, 0.001 Ω Resolutions



LCR-740

The LCR-740 is a versatile instrument for accurately measuring inductance, capacitance, resistance, and loss factor of electronic components. This compact unit provides a basic accuracy of 0.5% and resolutions of 0.1 μ H, 1 pF or 0.001 Ω . Its broad measurement ranges make it ideal for use in component design, inspection and selection. It has also found wide use in educational institutions as an aid to teaching the characteristics of inductive, capacitive and resistive components.

SPECIFICATIONS

INDUCTANCE MEASUREMENTS

Range

0.1 μ H to 1,100 H in 8 ranges with 10% overlap between ranges.

Resolution

0.1 μ H.

Accuracy (15 to 25°C)

100 μ H to 10 H: $\pm 0.5\%$ reading, $\pm 0.1\%$ full scale.

10 H to 100 H: $\pm 1\%$ reading, $\pm 0.1\%$ full scale.

0.1 μ H to 10 μ H: $\pm 3\%$ reading, $\pm 0.1\%$ full scale.

Residual Inductance

0.3 μ H max.

CAPACITANCE MEASUREMENTS

Range

1 pF to 11,000 μ F in 8 ranges with 10% overlap between ranges.

Resolution

1 pF.

Accuracy (15 to 25°C)

100 pF to 100 μ F: $\pm 0.5\%$ reading, $\pm 0.1\%$ full scale.

10 pF to 100 pF: $\pm 1\%$ reading, $\pm 0.1\%$ full scale.

100 μ F to 1,000 μ F: $\pm 3\%$ reading, $\pm 0.1\%$ full scale.

Residual Capacitance

3 pF max.

DISSIPATION (D) AND QUALITY (Q) FACTOR MEASUREMENTS

Range

0.01 to 30 at 1 kHz in 2 ranges.

Accuracy

$\pm 10\% \pm 3$ scale divisions.

RESISTANCE MEASUREMENTS

Range

0.001 Ω to 11 M Ω in 8 ranges with 10% overlap between ranges

Resolution

0.001 Ω .

Accuracy 15 to 25°C

0.1 Ω to 100 k Ω : $\pm 0.5\%$ reading, $\pm 0.1\%$ full scale.

100 k Ω to 1 M Ω : $\pm 1\%$ reading, $\pm 0.1\%$ full scale.

0.001 to 0.1 Ω : $\pm 2\%$ reading, $\pm 0.1\%$ full scale.

Residual Resistance

0.003 Ω max.

MEASUREMENT SIGNAL SOURCES

dc

Internal or external for resistance measurements.

ac

Internal 1 kHz or external 50 Hz to 40 kHz for inductance and capacitance measurements.

POWER REQUIREMENTS

Internal 9 V battery (supplied).

Ac Adapter (optional).

PHYSICAL

Size (W x H x D)

9½ x 3½ x 6½ in.

240 x 85 x 170 mm.

Weight

4.5 lbs., 2kg.

Accessories Supplied

Instruction Manual.

Cable for external input.

Miniature earphone (for null detecting).

9 V transistor battery.

Accessories Available

Type LPS-169A ac Adapter.

Terminating RF Power Meter

- 500 MHz
- 120 Watts



LPM-880

The LPM-880 provides accurate power measurements of transmitters with 50-ohm outputs. Connected as a dummy load, it is widely used in production-line testing and servicing of mobile, marine VHF-FM radiotelephones, VHF and UHF aircraft transceivers... virtually all types of fixed and mobile transceivers up to 500 MHz. Push-button ranges of 5, 20, and 120 watts are provided. Full-scale accuracy is $\pm 10\%$.

SPECIFICATIONS

Frequency Range

1.8-500 MHz.

Load Impedance

50 Ω .

VSWR

1.15:1 max.

Power Range

0 to 5, 20, and 120 W full scale (continuous up to 80 W, max., 1 min above 80 W).

Accuracy

$\pm 10\%$ full scale.

Input Connector

Type M (UHF).

Size (W x H x D)

4.7 x 5 x 9 in.

112 x 150 x 230 mm.

Weight

4 lbs., 1.8 kg.

Accessories Supplied

Instruction Manual.