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LC102 Features



Analyzes capacitors for:

- Value from 1 pF to 20 F
- Leakage with up to 1 kV applied
- Dielectric absorption
- Equivalent series resistance (ESR)



Analyzes inductors from 1 μ H to 20 H for opens, shorts, value, and even one shorted turn



Analyzes SCRs and triacs (with accessory), high-voltage resistors, and transmission lines



Makes all tests, compares results to EIA standards, and tells you "GOOD" or "BAD" - automatically



Portable; 9-hour battery operation for remote sites - AC operation for your bench

LC102 "AUTO-Z" Condensed Specifications

Capacitor Value - RANGE: 1.0 pF to 19.99 F fully autoranged. ACCURACY: $\pm 1\%$ ± 1 pF ± 1 digit up to 1990 μ F. $\pm 5\%$ $\pm .1\%$ of range fullscale for 2000 μ F to 19.99 F. Resolution: .1 pF on lowest range to .01 F on highest range: 12 ranges total. Automatically reads GOOD or BAD according to tolerance selected on keypad. Double layer lytics test patented.

Capacitor Leakage Voltage - VOLTAGE RANGE: 1.0V to 999.9V in 0.1V steps. VOLTAGE ACCURACY: +0% -5% POWER: Short circuit current limited to < 900 mA. Continuous power limited to 6 watts $\pm 10\%$. Selected on keypad.

Capacitor Leakage (current) - RANGE: 0.01 μ A to 19.99 mA fully autoranged. ACCURACY: $\pm 5\%$ ± 1 digit. RESOLUTION: 0.01 μ A to .01 mA for 0.01 μ A to 19.99 mA in four ranges. VOLTAGE: Maximum reading determined by voltage setting.

As A Dynamic Ohmmeter - RANGE: 100 ohms to 999 megohms depending on voltage setting. ACCURACY: $\pm 5\%$ ± 1 digit.

Capacitor Dielectric Absorption Test - RANGE: 1 to 100%. ACCURACY: $\pm 5\%$ of reading, ± 1 digit. CAPACITOR RANGE: 0.01 μ F to 19.99 F. Automatically reads GOOD or BAD on electrolytics at 15 percent variation in reading after charge and discharge; less for other capacitors.

Capacitor Equivalent Series Resistance (ESR) - RANGE: 0.10 ohm to 1999 ohms fully autoranged. ACCURACY: $\pm 5\%$ ± 1 digit. RESOLUTION: .01 ohms to 1 ohm on high end in three ranges. CAPACITOR RANGE: 1 μ F to 19.99 F.

Inductor Value - RANGE: 0.10 μ H to 19.99 H fully autoranged. ACCURACY: $\pm 2\%$ ± 1 digit. RESOLUTION: .01 μ H for 20 μ H range to .01 H for 19.99 H range: 9 automatic ranges.

Ring Test - Excites inductor with sharp wavefront of 5 volts peak amplitude 60 Hz. ACCURACY: ± 1 count from readings of 8 to 13: 10 rings or more automatically indicated as GOOD. Automatically selects correct impedance match to produce maximum rings. RESOLUTION: ± 1 digit.

General - DISPLAY: 6 digit LCD: auto decimal placement; leading zero suppression; pF, μ F, F, μ A, mA, %, K ohm, M ohm, ohms, μ H, mH, H, V, RINGS, SHORT, OPEN, WAIT, GOOD, and BAD annunciators, overranged indication. POWER: 105-135 VAC 60 Hz with supplied PA251 power adapter. Battery with optional BY234, 2.0 AH battery for 9 hours continuous typical battery life. Auto off approximately 20 minutes after use. Auto off overridden when using external AC power. SIZE AND WEIGHT: 6" x 9" x 11.5" HWD (15.2 x 22.6 x 29.2 cm.). 6 lbs. (2.7 kg.) without battery. 7.6 lbs. (3.5 kg.) with battery.

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