

LC103 "ReZolver"™ In-Circuit Capacitor/Inductor Analyzer



Now, For The First Time Ever, Reliably Pinpoint Bad Capacitors And Inductors In-Circuit, Or Completely Analyze Them Out-Of-Circuit With Exclusive, Dynamic, And Automatic Tests To EIA Standards.

- Pinpoints bad capacitors and inductors "in-circuit", and automatically tells you when further out-of-circuit tests are required
- Analyzes capacitors for all four failures out-of-circuit:
 - Value from 1 pF to 20F
 - Equivalent series resistance
 - Leakage with up to 1,000 volts applied
 - Dielectric absorption
- Tests SMT components in-circuit and accurately with exclusive, time-saving test accessories
- Analyzes inductors with exclusive, patented tests for:
 - Value from .1uH to 20 H
 - Opens or shorts
 - Even one shorted turn with patented "Ringer"
- Makes all tests, compares the results to EIA standards, and tells you "GOOD" or "BAD" – automatically
- Tests SCRs and triacs with optional SCR250 accessory

Call Today! 1-800-736-2673 or 1-605-339-0100

3200 Sencore Drive • Sioux Falls, SD 57107
FAX: 605-339-0317 • www.sencore.com

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LC103 "ReZolver"™

In-Circuit Capacitor/Inductor Analyzer Specifications

IN-CIRCUIT TESTS (Capacitors and Inductors)

Dynamic in-circuit tests to determine whether the component is good or bad.

COMPONENT TYPES: Electrolytic, double layer lytic, tantalum, ceramic, and other capacitors. Yokes, flybacks, switching transformers, and coils.

RANGE: INDUCTORS – 3.18 uH to 3.18 H

CAPACITORS – 0.002 uF to 20,000 uF

ACCURACY: Same as Out-of-Circuit tests for known good inductors and capacitors with no parallel current paths.

SUGGEST REMOVAL INDICATION: Initiated when AC test differs from DC test by more than 20%, or if low level DCR test indicates a leakage path greater than 20% of charge current for capacitors

CAPACITORS (Out-of-circuit)

VALUE: Dynamic test of capacity value is determined by applying a constant current to the capacitor and measuring the dV/dt

ACCURACY: ±1%; ±1 pF; ±1 digit for values to 1990 uF; ±5%; ±0.1% of range full scale for values 2000 uF to 20 F.

EQUIVALENT SERIES RESISTANCE (ESR)

ACCURACY: ±5%; ±1 digit

CAPACITOR RANGE: 0.01 uF to 20 F

DIELECTRIC ABSORPTION

ACCURACY: ±5% of reading ±1 count

RANGE: 1 to 100%

CAPACITOR RANGE: 0.01 uF to 20 F

LEAKAGE

ACCURACY: ±5%, ±1 digit.

APPLIED VOLTAGE: keyboard entry 1.0 to 1000 volts in .1 volt steps short circuit current limited to 900 mA

INDUCTORS (Out-of-Circuit)

VALUE: A dynamic test of value determined by measuring the EMF produced when a changing current is applied to the coil under test.

CURRENT RATES: automatically selected

RINGING TEST

A dynamic test of inductor quality determined by applying an exciting pulse to the inductor and counting the number of cycles the inductor rings before reaching a preset damping point.

INDUCTOR RANGE: 10 uH and larger, non-iron core

ACCURACY: ±1 count on readings between 8 and 13

RINGS RESOLUTION: ±1 count

EXCITING PULSE: 5 volts peak

GENERAL

TEMPERATURE: operating range: 32° to 104° F (0° to 40° C) range for specified accuracy (after 10 minute warm-up): 50° to 86° F (10° to 30° C)

POWER: 105-130V AC, 60Hz, 30 watts with supplied PA251 power adapter. Battery operation with optional BY289 rechargeable battery.

AUTO-OFF: Removes power during battery operation if unit sits idle longer than 5 minutes.

BATTERY LIFE: 2 hours typical operation.

SIZE: 6" x 9" x 11.5" (15.2 cm x 22.9 cm x 29.1 cm)

HWD WEIGHT: 6.0 lbs. (2.7 kg) without battery, 7.6 lbs. (3.4 kg) with battery.

GOOD/BAD INDICATION: Functions on all tests.

Requires user input of component type and value, or input of desired limits

All specifications subject to change without notice.

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