

Data Sheet

Model 889 Synthesized Bench In-Circuit LCR/ESR, True RMS ACV and DCV Meter with Diode Tester

The B&K Precision Model 889 Synthesized In-Circuit LCR/ESR Meter is a high accuracy test instrument used for measuring inductors, capacitors and resistors with a basic accuracy of 0.5%. Also, with the built-in functions of DC/AC Voltage measurements and Diode/Audible Continuity checks, the Model 889 can not only help engineers and students to understand the characteristic of electronics components but also being an essential tool on any service bench.

The Model 889 is defaulted to auto ranging. However, it can be set to auto or manual ranging by pressing the Range Hold key. When LCR measurement mode is selected, the test frequencies of 100Hz, 120Hz, 1KHz 10KHz or 100KHz may be selected on all applicable ranges. The test voltages of 50mVrms, 0.25Vrms, 1Vrms or 1VDC (DCR only) may also be selected on all applicable ranges. The dual display feature permits simultaneous measurements. When DC/AC voltage measurement mode or the Diode/Audible Continuity Check mode is selected, only the secondary display is used.

The instrument has applications in electronic engineering labs, production facilities, service shops, and schools. It can be used to check ESR values of capacitors, sort and/or select components, measure unmarked and unknown components, and measure capacitance, inductance, or resistance of cables, switches, circuit board foils, etc.

Features:

Voltage Measurements:

- AC: True RMS, up to 600Vrms @ 40 ~ 1KHz
- DC: up to 600V
- Input Impedance: 1M Ω

Diode/Audible Continuity Checks:

- Open Circuit Voltage: 5Vdc
- Short Circuit Current: 2.5mA

LCR Measurements:

- Test condition:
 1. Frequency: 100Hz / 120Hz / 1KHz / 10KHz/ 100KHz
 2. Level: 1Vrms / 0.25Vrms / 50mVrms / 1VDC (DCR only)
- Measurement Parameters: Z, Ls, Lp, Cs, Cp, DCR, ESR, D, Q and Δ
- Basic Accuracy: 0.5%
- Dual Liquid Crystal Display
- Fast/Slow Measurement
- Auto Range or Range Hold
- RS-232 Interface Communication
- Open/Short Calibration
- Primary Parameters Display:
 - Z: AC Impedance
 - DCR: DC Resistance
 - Ls: Serial Inductance
 - Lp: Parallel Inductance
 - Cs: Serial Capacitance
 - Cp: Parallel Capacitance
- Second Parameter Display:
 - Δ : Phase Angle
 - ESR: Equivalence Serial Resistance
 - D: Dissipation Factor
 - Q: Quality Factor



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