

Data sheet

Bench LCR/ESR Meter with Component Test Model 889B



The B&K Precision Corp. 889B Synthesized In-Circuit LCR/ESR Meter is a high accuracy test instrument used for measuring inductors, capacitors and resistors with a basic accuracy of 0.1%. Also, with the built-in functions of DC/AC Voltage/Current measurements and Diode/Audible Continuity checks, the 889B can not only help engineers and students to understand the characteristics of electronics components but also being an essential tool on any service bench.

Features:

- Measurement parameters: Z, L, C, DCR, ESR, D, Q, ACV, DCV, ACA, DCA and \emptyset
- Test conditions: 100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz, 200 kHz, 1 Vrms, 0.25 Vrms, 0.05 Vrms
- 0.1% basic accuracy
- Dual LCD display
- Very quick response, user friendly
- Fully auto/manual selection
- DC resistance measurement
- USB interface

Specifications

model

889B

| | |
|--------------------|--|
| Frequency | 100Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz, 200 kHz |
| Frequency Accuracy | $\pm 0.1\%$ |
| Level | 1 Vrms, 0.25 Vrms, 0.05 Vrms, 1 Vdc (for DCR) |
| level Accuracy | $\pm 10\%$ |
| Output Impedance | 100 Ω , $\pm 5\%$ |
| Measurement Range | |

Impedance (Z)

| Frequency | Maximum | Minimum | Best Resolution |
|-----------|---------------|--------------|-----------------|
| DCR | 20 M Ω | 0.1 Ω | 0.001 |
| 100 Hz | 20 M Ω | 0.1 Ω | 0.001 |
| 120 Hz | 20 M Ω | 0.1 Ω | 0.001 |
| 1 kHz | 20 M Ω | 0.1 Ω | 0.001 |
| 10 kHz | 20 M Ω | 0.1 Ω | 0.001 |
| 100 kHz | 20 M Ω | 0.1 Ω | 0.001 |
| 200 kHz | 20 M Ω | 0.1 Ω | 0.001 |

Capacitance (C)

| Frequency | Maximum | Minimum | Best Resolution |
|-----------|---------------|----------|-----------------|
| 100 Hz | 15.91 mf | 79.57 pf | 0.001 |
| 120 Hz | 13.26 mf | 66.31 pf | 0.001 |
| 1 kHz | 1.591 μ f | 7.957 pf | 0.001 |
| 10 kHz | 159.1 μ f | 0.795 pf | 0.001 |
| 100 kHz | 15.91 pf | 0.159 pf | 0.001 |
| 200 kHz | 0.079 pf | 795.7 pf | 0.001 |

Inductance (L)

| Frequency | Maximum | Minimum | Best Resolution |
|-----------|---------|---------------|-----------------|
| 100 Hz | 9999 H | 159.1 μ H | 0.001 |
| 120 Hz | 9999 H | 132.6 μ H | 0.001 |
| 1 kHz | 3183 H | 15.91 μ H | 0.001 |
| 10 kHz | 318.3 H | 1.591 μ H | 0.001 |
| 100 kHz | 31.83 H | 0.159 μ H | 0.001 |
| 200 kHz | 15.91 H | 0.159 μ H | 0.001 |

GENERAL

| | |
|-----------------------|---------------------------------------|
| Operating Temperature | 32° to 104°F (0° to 40°C) |
| Storage Temperature | -4° to 158°F (-20° to 70°C) |
| Relative Humidity | up to 85% |
| AC Operation | 110V/220V AC, 60/50Hz |
| Low Power Warning | under 2.2V |
| Dimensions (LxWxH) | 11.8 x 8.7 x 5.9" (300 x 220 x 150mm) |
| Weight | 10 lbs (4.5 kg) |

One Year Warranty

Accessories

Supplied: Instruction Manual, Kelvin Probe, line Cord