

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 Ø
- 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	±0.1%
Level	1 Vrms, 0.25 Vrms, 0.05 Vrms, 1 Vdc (for DCR)
level Accuracy	±5%
Output Impedance	100 Ω, ±5%
Measurement Range	

Impedance (Z)

Frequency	Maximum	Minimum	Best Resolution
DCR	20 MΩ	0.1 Ω	0.001
100 Hz	20 MΩ	0.1 Ω	0.001
120 Hz	20 MΩ	0.1 Ω	0.001
1 kHz	20 MΩ	0.1 Ω	0.001
10 kHz	20 MΩ	0.1 Ω	0.001
100 kHz	20 MΩ	0.1 Ω	0.001
200 kHz	20 MΩ	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 μf	7.957 pf	0.001
10 kHz	159.1 μf	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 μH	0.001
120 Hz	9999 H	132.6 μH	0.001
1 kHz	3183 H	15.91 μH	0.001
10 kHz	318.3 H	1.591 μH	0.001
100 kHz	31.83 H	0.159 μH	0.001
200 kHz	15.91 H	0.159 μH	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