

Data Sheet

Bench LCR/ESR Meter with Component Tester

Model 889B



The B&K Precision 889B synthesized in-circuit bench 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

Test Frequencies	100Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz, 200 kHz		
Frequency Accuracy	±0.1%		
Test Levels	1 Vrms, 0.25 Vrms, 0.05 Vrms, 1 Vdc (for DCR)		
Level Accuracy	±10%		
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	10 MΩ	0.1 Ω	0.001
200 kHz	10 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 mF	7.957 pF	0.001
10 kHz	159.1 μF	0.795 pF	0.001
100 kHz	15.91 mF	0.159 pF	0.001
200 kHz	7.957 μF	0.079 pF	0.001
Inductance (L)			
Frequency	Maximum	Minimum	Best Resolution
100 Hz	31.83 kH	159.1 μH	0.001
120 Hz	26.52 kH	132.6 μH	0.001
1 kHz	3.183 kH	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	0.079 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		
Dimensions (LxWxH)	11.8 x 8.7 x 5.9" (300 x 220 x 150mm)		
Weight	10 lbs (4.5 kg)		

Three Year Warranty

Supplied Accessories: User manual, Kelvin probe, DMM test leads, and power cord