Data Sheet

Synthesized In-Circuit LCR/ESR Meters

Models 885 & 886

Model 885

SMD Probe
(included)

The B&K Precision models 885 and 886 synthesized in-circuit LCR/ESR meters are the first handheld meters of this type on the market, with a wide range of test frequencies up to 10 kHz for model 885 and 100 kHz for model 886, many measurement parameters including Z, L, C, DCR, ESR, D, Q, and Ø as well. The 885 and 886 are designed for both component evaluation on the production line and fundamental impedance testing for benchtop applications. With a built-in direct test fixture, you can test the lead components very easily. The optional 4-wire test clip can give a convenient connection to larger components and assemblies with the accuracy of 4-wire testing. The LCR meters offer fast, reliable, and versatile testing at low cost, making the 885 and 886 the most advanced handheld LCR meters available on the market today.

Features & Benefits

- Measurement parameters: Z, L, C, DCR, ESR, D, Q, and Ø
- Test conditions: 100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz (model 886 only), 1 Vrms, 0.25 Vrms, 0.05 Vrms
- 0.5% basic accuracy
- Dual LCD display
- SMD surface mount tweezer probe included
- Very quick response, user-friendly
- Fully auto/manual selection
- DC resistance measurement
- Rechargeable battery / AC powered

Specifications	885 & 886			
Test Frequencies	100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz (model 886 only)			
Frequency Accuracy	± 0.1%			
Test Levels	1 Vrms, 0.25 Vrms, 0.05 Vrms, 1 Vdc (for DCR)			
Level Accuracy	± 5%			
Output Impedance	100 Ω, ± 5%			
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
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 µF	0.159 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	31.83 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
General				
Operating Temperature	32 °F to 104 °F (0 °C to 40 °C)			
Storage Temperature	-4 °F to 158 °F (-20 °C to 70 °C)			
Relative Humidity	up to 85%			
Battery Type	Ni-MH or Alkaline (2 x AA size)			
Battery Charge	Constant current 150 mA approximately			
Battery Operating Life	2.5 hours typical			
AC Operation	110 V/220 VAC, 60/50 Hz with proper adapter*			
Low Power Warning	under 2.2 V			
Dimensions (LxWxH)	6.9" x 3.4" x 1.9" (174 x 86 x 48mm)			
Weight	1.1 lbs (470 g)			
	Three-Year Warranty			
Standard Accessories	User manual, SMD probe, rechargeable battery, shorting bar, and AC adapter*			
Optional Accessories	Carrying case, TL08C Kelvin clip, TL885B 4-wire test clip, BC 885 110 V AC adapter, and BC 885 EXD 220 V AC adapter			

* The 885 and 886 include a 110 V AC adapter. For a 220 V AC adapter, order model 885 EXD or 886 EXD.

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