

Data sheet

Synthesized In-Circuit LCR/ESR Meters

Models 885 & 886



885



SMD Probe
(included)

The Model 885 and 886 Synthesized In-Circuit LCR/ESR Meters are the first handheld meter of this type on the market, with a wide range of test frequencies up to 10 kHz for model 885 and 100kHz for model 886 many measurement parameters including Z, L, C, DCR, ESR, D, Q, and $\emptyset$ as well. The 885 and 886 are designed for both component evaluation on the production line and fundamental impedance testing for bench-top 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:

- Measurement parameters: Z, L, C, DCR, ESR, D, Q, and $\emptyset$
- Test conditions: 100Hz, 120Hz, 1kHz, 10kHz, 100kHz(model 886 only), 1Vrms, 0.25Vrms, 0.05Vrms
- 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

models

885, 886

Frequency	100Hz, 120Hz, 1kHz, 10kHz, 100kHz(model 886 only)
Frequency Accuracy	$\pm 0.1\%$
Level	1Vrms, 0.25Vrms, 0.05Vrms, 1Vdc (for DCR)
level Accuracy	$\pm 5\%$
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

Capacitance (C)

Frequency	Maximum	Minimum	Best Resolution
100 Hz	15.92mf	79.57pf	0.001
120 Hz	13.26mf	66.31pf	0.001
1 kHz	1592 μ f	7.957pf	0.001
10 kHz	159.2 μ f	0.795pf	0.001
100 kHz	15.92 μ f	0.795pf	0.001

Inductance (L)

Frequency	Maximum	Minimum	Best Resolution
100 Hz	9999H	159.2 μ H	0.001
120 Hz	9999H	132.6 μ H	0.001
1 kHz	3183H	15.92 μ H	0.001
10 kHz	318.3H	1.592 μ H	0.001
100 kHz	31.83H	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%
Battery Type	Ni-MH or Alkaline (2 x AA size)
Battery Charge	Constant current 150mA approximately
Battery Operating Life	2.5 hours typical
AC Operation	110V/220V AC, 60/50Hz with proper adapter
Low Power Warning	under 2.2V
Dimensions (LxWxH)	6.9 x 3.4 x 1.9" (175 x 86 x 48mm)
Weight	1.1 lbs (470g)

Two Year Warranty

Accessories

Supplied: Instruction Manual, SMD Probe, Rechargeable Battery, AC Adapter