## 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 Ø 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 Ø
- 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 | ±0.1% | | |
| Level | 1Vrms, 0.25Vrms, 0.05Vrms, 1Vdc (for DCR) | | |
| level Accuracy | ±5% | | |
| Output Impedance | 100Ω, ±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 |
| Capacitance (C) | | | |
| Frequency | Maximum | Minimum | Best Resolution |
| 100 Hz | 15.92m*f* | 79.57p*f* | 0.001 |
| 120 Hz | 13.26m*f* | 66.31p*f* | 0.001 |
| 1 kHz | 1592μ*f* | 7.957p*f* | 0.001 |
| 10 kHz | 159.2μ*f* | 0.795p*f* | 0.001 |
| 100 kHz | 15.92μ*f* | 0.795p*f* | 0.001 |
| Inductance (L) | | | |
| Frequency | Maximum | Minimum | Best Resolution |
| 100 Hz | 9999H | 159.2μH | 0.001 |
| 120 Hz | 9999H | 132.6μH | 0.001 |
| 1 kHz | 3183H | 15.92μH | 0.001 |
| 10 kHz | 318.3H | 1.592μH | 0.001 |
| 100 kHz | 31.83H | 0.159μH | 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



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ELECTRONIC TEST INSTRUMENTS