

# LCR METER

# LCR701

## APPLICATIONS AND FEATURES

### High-performance handheld LCR meter

- Automatically selectable L/C/R measurement and Selectable Series/Parallel mode
- Ls/Lp/Cs/Cp measurement with sub parameters (D/Q/θ/ESR)
- 5 different measuring frequencies (100/120/1k/10k/100kHz)
- OPEN/SHORT Calibration function
- DC resistance function (7 ranges: 200.00Ω to 200.0MΩ)
- Device Sorting mode to allow users to quickly sort passive devices such as L, C, and R
- Optical link USB interface (optional)
- Data hold, Backlight, Relative function

## SPECIFICATIONS

	Measuring range	Best accuracy	Sampling rate	1.2 times / second (LCR mode) 0.5 times / second (DCR mode)
Ls/Lp	20.000μ/200.00μ/2000.0μ/20.000m/200.00m/2000.0m 20.000/200.00/2000.0/20.000kH	±(0.3%+3)	Measuring frequencies	100/120/1k/10k/100kHz
Cs/Cp	200.00p/2000.0p/20.00n/200.00n/2000.0n/ 20.000μ/200.00μ/2000.0μ/20.00mF (50pF or less: out of accuracy)	±(0.3%+3)	Measuring mode	Series / Parallel
Rs/Rp	20.000/200.00/2.0000k/20.000k/ 200.00k/2.0000M/20.000M/200.0MΩ	±(0.3%+3)	Measurable parameters	Ls / Lp / Cs / Cp / Rs / Rp / DCR (including D/Q/θ/ESR/RP)
Ω(DCR)	200.00/2.0000k/20.000k/200.00k/ 2.0000M/20.000M/200.0MΩ	±(0.3%+3)	Power supply	6LF22 (alkaline 9V) 6F22 (manganese 9V) AC adapter AD-30-3 (optional)
			Battery life	6LF22 (alkaline 9V): Approx. 40 hours 6F22 (manganese 9V): Approx. 18 hours (auto LCR mode, 1 kHz)
			Size / Mass	H184×W87×D45 mm / Approx. 400g
			Safety standards	IEC61326-1, EN50581
			Standard accessories included	Clip leads(CL-700a), Holster(H-701), Instruction manual
			Separately available accessories	Shorting plate for the directly connectable measuring terminals, AC/DC adapter (AD-30-3), SMD clipping leads (CL-700SMD) LCR USB communication unit (LCR-USB) Dedicated software (LCR Link is available for free download from our website.)

A battery for monitoring has been installed prior to shipment from the factory. It may be discharged before the expiration of the described battery life. This battery is used to check the functions and performance of the product. Specifications and external appearance of the product described above may be revised for modification without prior notice.



## AUTO LCR mode

This meter can automatically select one of the following functions, resistance/capacitance/inductance measurement, even if you don't recognize what a device is.



Resistance measurement



Capacitance measurement



Inductance measurement

## Device Sorting function (PASS/FAIL result)

This meter can sort device values into PASS/FAIL at arbitrary threshold.

Tolerance indicator:  
 $\pm 0.25\%$ ,  $\pm 0.5\%$ ,  $\pm 1\%$ ,  $\pm 2\%$ ,  $\pm 5\%$ ,  $\pm 10\%$ ,  $\pm 20\%$ ,  $-20\sim+80\%$



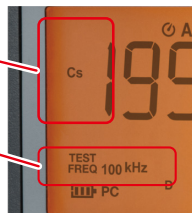
## Selectable measuring functions and frequencies

7 measuring functions

Ls / Lp / Cs / Cp /  
 Rs / Rp /  $\Omega$ (DCR)

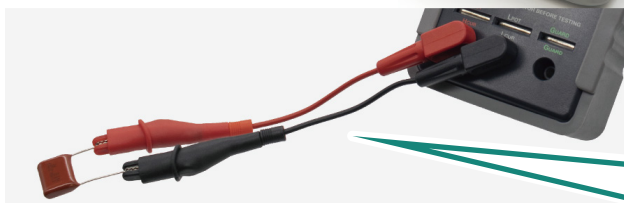
5 measuring frequencies

100Hz / 120Hz /  
 1kHz / 10kHz / 100kHz



## Measuring terminals and clip leads

DUT's (Devices Under Test) can be connected to the meter.



## Easy management of measurement data on a PC

PC software for LCR701  
**LCR Link**

LCR USB  
 connection unit  
**LCR-USB**



LCR-USB, dedicated USB optical communication unit for LCR701 (optional accessory), and the dedicated software allow you to record the test results in your PC and save them in CVS format.



### Clip lead **CL-700a**

Standard accessory

Clip lead Length 0.16m



### SMD Clip lead **CL-700SMD**

Optional accessory

Length 0.55m



### AC adapter **AD-30-3**

Optional accessory

Length 2.1m



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