

# High-performance handy LCR meter !

## LCR700



CE

The main display will show either [PASS] or [FAIL] as each device is measured.

- 5 different measuring frequencies (100/120/1 k/10 k/100 kHz)
- Ls/Lp/Cs/Cp measurement with sub parameters (D/Q/θ/ESR)
- Automatically selectable L/C/R measurement
- Selectable Series/Parallel mode
- Device Sorting mode to allow users to quickly sort passive devices such as L, C, and R
- Separately available companion software and "LCR-USB" communication unit will allow you to transfer the measured data to your PC with ease
- Data hold / Back light / Relative measurement

Sampling rate : 1.2 times / second (LCR mode)  
0.5 times / second (DCR mode)

Safety : JIS C 1302  
IEC61010 CAT.III 300V / CAT.II 600V  
IEC61557



Measurable parameters	Ls / Lp / Cs / Cp / Rs / Rp / DCR (including D/Q/θ/ESR/RP)	Specification guaranteed temperature/humidity	18 ~ 28 °C < 80 % RH
LCD display (with Backlight)	Main display 20,000 counts: Ls/Lp/Cs/Cp/Rs/Rp/DCR Sub display 2,000 counts: D/Q/θ/ESR/RP	Mass	without holster Approx. 320g with holster Approx. 400g
Measuring frequencies	100 Hz / 120 Hz / 1 kHz / 10 kHz / 100 kHz	Dimensions	without holster Approx. L 175 mm x W 80 mm x H 40 mm with holster Approx. L 184 mm x W 87 mm x H 45 mm
Measuring signal level	0.63 Vrms(nominal), 0.9 Vdc(nominal)	Operating conditions	Altitude: < 2,000 m Pollution degree: II
Selectable tolerances	±0.25 %, ±0.5 %, ±1 %, ±2 %, ±5 %, ±10 %, ±20 %, -20 % ~ +80 %	Safety standard	IEC61010-031
Range selection	Automatic	EMC	IEC61326-1 Under a condition field strength CS 3 V(0.15-80 MHz): The following shows a total accuracy of the DC resistance measurement. Total accuracy = specified accuracy ± 150dgt In other ranges or a condition which is worse than the above described condition, the accuracy is not specified.
Measurement rate	1.2 times / second(LCR mode) 0.5 times / second(DCR mode)	Accessories	Clip leads(CL-700), Holster(H-701), Shorting plate for the directly connectable measuring terminals, Instruction manual
Auto Power Off	5 minutes after the last operation	Separately available accessories	AC/DC adapter(AD-30-2), SMD clipping leads(CL-700SMD), LCR USB communication unit(LCR-USB), (PC communication software bundled)
Power source	Single alkaline 9 V battery 6LR61(IEC6LF22, NEDA 1604A) or an external AC/DC adapter(separately available: AD-30-2)		
Power consumption	Approx. 110mW		
Battery life	Approx. 35 hours(Auto LCR Mode, 1 kHz)		
Battery power indication	4 levels		
Operating temperature/humidity	0 ~ 50 °C < 80 % RH		
Storage temperature/humidity	-20 ~ 60 °C < 80 % RH		
Temperature coefficient	[0.15 x (specified accuracy)] / °C 0 ~ 18 °C, 28 ~ 50 °C		