HIGH PRECISION LCR METER



LCR-821 (12Hz~200kHz) LCR-819/829 (12Hz~100kHz) LCR-817/827 (12Hz~10kHz) LCR-816/826(100Hz~2kHz)

CE	RS-232	Handler	PC Software
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FEATURES

- * Test Frequency: 12Hz~200kHz (LCR-821) 12Hz~100kHz (LCR-819/829) 12Hz~10kHz (LCR-817/827) 100Hz~2kHz (LCR-816/826)
- * 0.05~0.1% Measurement Accuracy
- * 100 Sets Memory for Save/Recall of Settings
- * R/Q, C/D, C/R, L/Q Test Modes for all Models; Z/ θ , L/R for LCR-821 Only
- * Absolute Value, ∆ Value, and ∆ % Measurement Display
- * 240 x 128 dot Matrix LCD Display
- * Displays Condition and Test Result
- Simultaneously
- * Interface : RS-232C (LCR-821/819/817/816) Handler (LCR-829/827/826)

The LCR-800 Series are high-end digital LCR meters for component/material measurements, applicable to various R&D activities and assembly lines. The large 240 x 128 dot matrix LCD display provides ampleroom for two measurement items and setup parameters allowing you to grasp measurement results quickly. All test modes are able to measure supplementary factors such as, R/Q, C/D, C/R, and L/Q. The LCR-821 also contains precise resistance measurements as a combination of absolute value and phase angle. 100 sets of measurement setup memory allow sharing a single unit among multiple testing conditions or sites. For a better viewing experience with a standard PC monitor, proprietary Windows based software is accessible via the RS-232C terminal. The handler interface is also a standard feature for LCR-826/827/829.

SPECIFICATIONS	
TEST FREQUENCY	
·	12Hz ~ 200kHz (504 steps) for LCR-821 12Hz ~ 100kHz(503 steps) for LCR-819/829 12Hz ~ 10kHz(489 steps) for LCR-817/827 100Hz ~2kHz (245 steps) for LCR-816/826
BASIC ACCURACY •••	
	0.05% for basic accuracy for LCR-821/819/817 0.1% for basic accuracy for LCR-829/827/826/816
TEST SPEED	
	68ms for LCR-821/819/817/816, 34ms for LCR-829/827/826
TEST SIGNAL LEVELS	
	5mV ~ 1.275Vrms (5mV/step) for LCR-821/819/829/817/827 0.1V ~ 1.275Vrms (5mV/step) for LCR-816/826
DC BIAS	
Internal External	2V 0 ~ 35V for LCR-821; 0 ~ 30V for LCR-819/829/817/827/816/826
DISPLAY RANGE	
Resistance Capacitance Inductance Quality Factor Dissipation Factor Impedance Phase Angle (Degree)	R 0.00001Ω ~ 99999kΩ C 0.00001pF ~ 99999 μF L 0.00001mH ~ 99999H Q 0.0001 ~ 9999 D 0.0001 ~ 9999 J 0.00001Ω ~ 99999h Z 0.00001Ω ~ 99999h J 0.00001Ω ~ 99999h L 0.00001Ω ~ 99999h
TEST MODE	
	R/Q , C/D, C/R, L/Q Z/ G , L/R for LCR-821 only
EQUIVALENT CIRCUIT	
	Parallel or series selectable
MEMORY	
	100 memory blocks total
AVERAGE	
	1 to 255 times
TEST SPEED MODE	
BIRDIAN LEBE	SLOW, MEDIUM and FAST
DISPLAY MODE	
	Value, \triangle , \triangle %
DISPLAY	
	240x128 dot matrix C.C.F.L back light LCD
INTERFACE	
	Standard Interface : RS-232C for LCR-821 Standard Interface : Handler Interface for LCR-829/827/826 Optional : RS-232C Interface for LCR-819/817/816 (factory installed) (Including LCR-Viewer Software)
POWER SOURCE	
Line Voltage Range	AC 100V ~ 240V , 47 ~ 63/400Hz
DIMENSIONS & WEIGHT	
	322 (W) x 149 (H) x 433 (D)mm, Approx. 5.5kg

(**) : Display range refers to the range of measurement values that can be displayed on the screen.

Please see the LCR-800 user manual for the effective measurement ranges.

LCR-821 Rear Panel

LCR-819 Rear Panel



LCR-821

мо	DEL	LCR-821	LCR-819	LCR-829	LCR-817	LCR-827	LCR-816	LCR-826
Display 240 x 128 d		240 x 128 dot m	atrix CCFL ba	ck light LCD	;;	<u>k</u>		
Test Frequency		12Hz~200kHz (504 steps)	12Hz~100kHz (503 steps)		12Hz~10kHz (489 steps)		100Hz~2kHz (245 steps)	
Basic Ad	curacy	0.05%	0.05%	0.1%	0.05%	0.1%	0.1%	
Test Mode		R/Q, C/D, C/R L/Q, Z/ 0 , L/R	R/Q, C/D, C/R,L/Q		R/Q, C/D, C/R,L/Q		R/Q, C/D, C/R,L/Q	
Memory	,	100 memory blo	cks totally					
DC BIAS	Internal	2V	2V		2V		2V	
	External	0~35V	0~30V		0~30V		0~30V	
Interface	RS-232	Std.	Opt.		Opt.		Opt.	
	Handler			Std.		Std.		Std.

ORDERING INFORMATION

- LCR-821 200kHz High Precision LCR Meter with RS-232 Interface LCR-819 100kHz High Precision LCR Meter LCR-829 100kHz High Precision LCR Meter with Handler Interface LCR-817 10kHz High Precision LCR Meter LCR-827 10kHz High Precision LCR Meter with Handler Interface LCR-816 2kHz High Precision LCR Meter LCR-826 2kHz High Precision LCR Meter with Handler Interface ACCESSORIES : User manual x 1, Power cord x1, LCR-06A x 1 OPTION Opt.01 RS-232C Interface (Factory Installed) **OPTIONAL ACCESSORIES** LCR-05 Test Fixture for Axial & Radial Leaded Components LCR-06A Kelvin Clip Test Lead Test Fixture, Two-Wire with Alligator Clips LCR-07 LCR-08 Test Fixture(Tweezers) for SMD/Chip Components
- LCR-09
 Test Fixture for SMD/Chip Components

 LCR-13
 Test Fixture for SMD/Chip Components

 CRA-402
 Rack Adapter Panel, Rack Mounting (19", 4U)

 GTL-322
 RS232C Cable, 9-pin Female to 9-pin, null Modem for Computer

 GTC-001
 Instrument Cart

 GTC-002
 Instrument Cart

 FREE DOWNLOAD
 Instrument Cart

PC Software LCR-Viewer



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LCR-06A

LCR-05 Patent:185538

Description:





Test fixture for measurement of both axial and vertical lead components Frequency: DC to 1MHz

the DUT.

Description: Kelvin clip test leads. Frequency: DC to 1MHz Max. Voltage: +/- 35V

LCR-07



Description: Test leads for conventional component measurement. It is especially useful for high impedance measurement. (With alligator clips) Two-wire measurement; apply to low C or high R. Frequency: DC to 1MHz Max. Voltage: +/-35V

LCR-09 Patent:18617



Description: SMD / chip test fixture Frequency: DC to 1MHz Max. Voltage: +/- 35V Size range from 0603 to 1812



Max. Voltage: +/-35V



Description: SMD / clip tweezers Frequency: DC to 1MHz Max. Voltage: +/- 35V

LCR-13 Patent:186171



Description: SMD / chip test fixture Frequency: DC to 1MHz Max. Voltage: +/- 35V Size range from 0201 to 0805

