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Find the *Instek LCR-8101* at our website: *Click HERE*

1MHz PRECISION LCR METER



NEW

LCR-8101(1MHz)

CE RS-232 GPIB

The LCR-8101 1MHz precision LCR meter provides accuracy and versatility for a wide range of component measurements, even including DC resistance measurement and Voltage/Current monitoring. High resolution and accuracy provide precise measurement results which helps reconstructing component characteristics. Multi-Step function allows customized measurement with Pass/Fail indication, in accordance with to the users' requirements. Parameters and limitations are defined separately for each program step. GPIB and RS-232C interface are installed as standard features for controlling the instrument and reading the measurement results. Optional Graph Mode function can display component characterization over a wide frequency range in graph charts. The rich features of LCR-8101 relieve your measurement tasks at a very competitive price.



LCR-8101

Rear Panel



FEATURES

* Test Frequency 20Hz ~ 1 MHz
* 6 Digit Measurement Resolution
* DC Resistance Measurement
* Monitoring of DUT Voltage and Current
* 0.1% Basic Measurement Accuracy
* Comprehensive Measurement Functions
* Standerd Interface : RS-232 & GPIB
* Large LCD Display
* Intuitive User Interface
* Multi Step Mode
* PASS/FAIL Comparator
* Graph Mode (Option)

SPECIFICATIONS

TEST FREQUENCY	
20Hz ~ 1MHz, 5 Digits, ±0.005%	
INPUT IMPEDANCE	
100Ω	
BASIC ACCURACY	
±0.1% (R, Z, X, G, Y, B, L, C)	
TEST SPEED	
AC MAX: 75mS FAST: 150mS MEDIUM: 450mS SLOW: 600mS	DC MAX: 30mS FAST: 60mS MEDIUM: 120mS SLOW: 500mS
TEST SIGNAL LEVELS	
10mV~2Vrms, 1mV/Step, ±2.5%	
SHORT CIRCUIT CURRENT	
Max. 20mA	
DISPLAY RANGES	
R, Z, X	0.01mΩ ~ 1GΩ
G, Y, B	0.001nS ~ 1kS
L	0.1nH ~ 100kH
C	0.001pF ~ 1F
D	0.00001 ~ 1000
Q	0.1 ~ 9999.9
Rdc	0.1mΩ ~ 100MΩ
MEASUREMENT PARAMETERS	
Impedance (Z), Phase Angle (θ), Inductance (L), Capacitance (C), AC Resistance (Rac), Quality Factor (Q), Dissipation Factor (D), Admittance (Y), Conductance (G), Reactance (X), Susceptance (B), DC Resistance (Rdc)	
SERIES OR PARALLEL EQUIVALENT CIRCUIT	
C + R, C + D, C + Q, L + R, L + Q	
SERIES EQUIVALENT CIRCUIT ONLY	
X + R, X + D, X + Q	
PARALLEL EQUIVALENT CIRCUIT ONLY	
C + G, B + G, B + D, B + Q	
POLAR FORM	
Z + Phase Angle, Y + Phase Angle	
LCD DISPLAY	
320 x 240 DOT-MATRIX	
INTERFACE	
RS-232, GPIB	
POWER SOURCE	
AC 115V/230V (Selectable), 50/60Hz	
DIMENSIONS & WEIGHT	
330(W) x 170(H) x 340(D)mm, Approx. 5kg	

ORDERING INFORMATION

LCR-8101 1MHz Precision LCR Meter

ACCESSORIES :
User manual x1, Power cord x 1, Test lead LCR-06A

Option

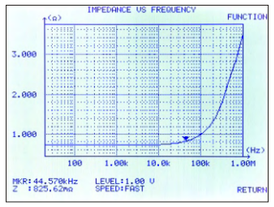
Opt.01 Graph Mode (factory installed)

Optional Accessories

LCR-05 Test Fixture for Axial & Radial Leaded Components
LCR-06A Kelvin Clip Test Leads
LCR-07 Test Fixture, Two-Wire with Alligator Clips
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
GRA-404 Rack Adapter Panel, Rack Mounting (19", 4U)
GTL-232 RS232C Cable, 9-pin Female to 9-pin, null Modem for Computer
GTC-001 Instrument Cart
GTC-002 Instrument Cart

OPTION - Graph Mode

Display of component characterization
over a wide frequency range in graph charts.



LCR-06A



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

LCR-05

Patent:185538



Description:
Test fixture for measurement of both axial and vertical lead components
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-08

Patent:188540



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

LCR-09

Patent:186171



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

LCR-13

Patent:186171



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

BASIC T & M INSTRUMENTS

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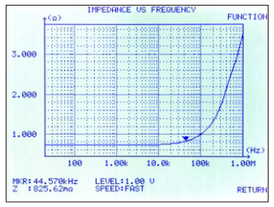
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