



NEW

LCR-8101(1MHz)



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.

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
- * GPIB Interface
- * Large LCD Display
- * Intuitive User Interface
- * Multi Step Mode
- * PASS/FAIL Comparator
- * Graph Mode (Option)

SPECIFICATIONS

TEST FREQUENCY	
20Hz ~ 1MHz, 5 Digits, $\pm 0.005\%$	
INPUT IMPEDANCE	
100 Ω	
BASIC ACCURACY	
$\pm 0.1\%$ (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, $\pm 2.5\%$	
SHORT CIRCUIT CURRENT	
20mA ~ 100mA	
MEASUREMENT RANGES	
R, Z, X	0.1m Ω ~ 1M Ω
G, Y, B	10nS ~ 1kS
L	0.1nH ~ 100kH
C	0.001pF ~ 1F
D	0.0001 ~ 9.9999
Q	0.1 ~ 9999.9
Rdc	0.1m Ω ~ 100M Ω
MEASUREMENT PARAMETERS	
Impedance (Z), Phase Angle (\angle), 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	
115V/230V AC(SELECTABLE), 50/60Hz	
ACCESSORIES	
User manual x1, Power cord, Test lead LCR-12 x 1	
DIMENSIONS & WEIGHT	
330(W) x 170(H) x 340(D)mm, Approx. 5kg	



LCR-8101

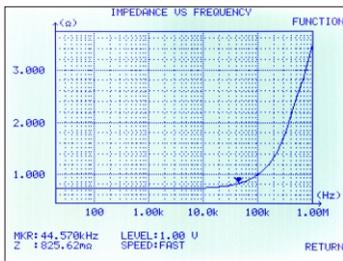
Rear Panel



ORDERING INFORMATION	
LCR-8101	1MHz Precision LCR Meter
Option	
Opt.01	Graph Mode (factory installed)

OPTION - Graph Mode

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



LCR-12

Measurement Connections

4 front panel BNC sockets with screens at ground potential.

For : LCR-8101

