



**LCR-8101(1MHz)**

**NEW**



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.

**勝特力材料 886-3-5753170**  
**勝特力电子(上海) 86-21-54151736**  
**勝特力电子(深圳) 86-755-83298787**  
[Http://www.100y.com.tw](http://www.100y.com.tw)

## 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
- \* Standard Interface : RS-232 & GPIB
- \* Large LCD Display
- \* Intuitive User Interface
- \* Multi Step Mode
- \* PASS/FAIL Comparator
- \* Graph Mode ( Option )

## SPECIFICATIONS

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



**LCR-8101**

**Rear Panel**



**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)

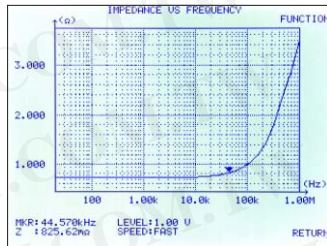
**GTL-232** RS232C Cable, 9-pin Female to 9-pin, null Modem for Computer

**GTC-001** Instrument Cart

**GTC-002** Instrument Cart

**OPTION - Graph Mode**

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



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**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