

LCR METER

Model : LCR-9083

ISO-9001, CE, IEC1010



Lutron

LUTRON ELECTRONIC



The Art of Measurement

LCR METER, Model : LCR-9083

GENERAL SPECIFICATIONS	
Display	18 mm (0.7") LCD, Max. reading 1999.
Measurement	Inductance : 2 mH to 20 H, 5 ranges. Capacitance : 2 nF to 200 uF, 6 ranges. Resistance : 200 ohm to 20 M Ohm, 6 ranges. Diode test
Over-input indicator	" 1 " mark indication.
Sampling Time	Approx. 0.4 second.
Operating Temperature & Humidity	0 to 50 °C (32 to 122 °F). Less than 80% RH.
Power Supply	006 P DC 9V battery, heavy duty battery.
Dimensions	185 x 87 x 39 mm(7.3 x 3.4 x 1.5 inch)
Weight	280 g/0.62 LB.
Power Consumption	R measurement : Approx. 9 mA max. L & C measurement : Approx. 13 mA max.
Accessories Included	Instruction Manual1 PC Test alligator clips 1 pair

ELECTRICAL SPECIFICATIONS (23 5 C)				
Inductance				
Range	In-range Display	Resolution	Test Frequency	Accuracy
* 2 mH	10 uH-2 mH	1 uH	250 Hz	± (3 % + 3 d)
20 mH	0.2 mH-20 mH	10 uH	250 Hz	
200 mH	2 mH-200 mH	100 uH	250 Hz	
2 H	20 mH-2 H	1 mH	250 Hz	± (5 % + 5 d)
20 H	0.2 H-20 H	10 mH	250 Hz	
<i>uH = micro Henry (10⁻⁶H). mH = mili Henry (10⁻³H).</i>				
<i>* Zero stray inductance of 2 mH range (short circuit) : 30 uH.</i>				
Capacitance				
Range	In-range Display	Resolution	Test Frequency	Accuracy
* 2 nF	10 pF-2 nF	1 pF	250 Hz	± (3 % + 3 d)
20 nF	200 pF-20 nF	10 pF	250 Hz	
200 nF	2 nF - 200 nF	100 pF	250 Hz	
2 uF	.02 uF - 2 uF	1 nF	250 Hz	
20 uF	0.2 uF - 20 uF	10 nF	250 Hz	
200 uF	2 uF - 200 uF	100 nF	250 Hz	
<i>pF= pico Farad (10⁻¹² F) nF= nano Farad (10⁻⁹ F)</i>				
<i>uF= micro Farad (10⁻⁶ F)</i>				
<i>* Zero stray capacitance of 2 nF range (open circuit) : 30 pF.</i>				
Resistance				
Range	Resolution	Open Circuit Voltage	Accuracy	
200 ohm	0.1 ohm	Approx. DC 3 V	± (2 % + 3 d)	
2 K	1 ohm			
20 K	10 ohm			
200 K	100 ohm			
2 M	1 K			
20 M	10 K	Approx. DC 1.5 V		
Diode				
* Short/non conductance, good/defect test				
* Approx. diode forward voltage (VF) measurement.				
* Open circuit voltage is DC 3 V.				