

Pocket

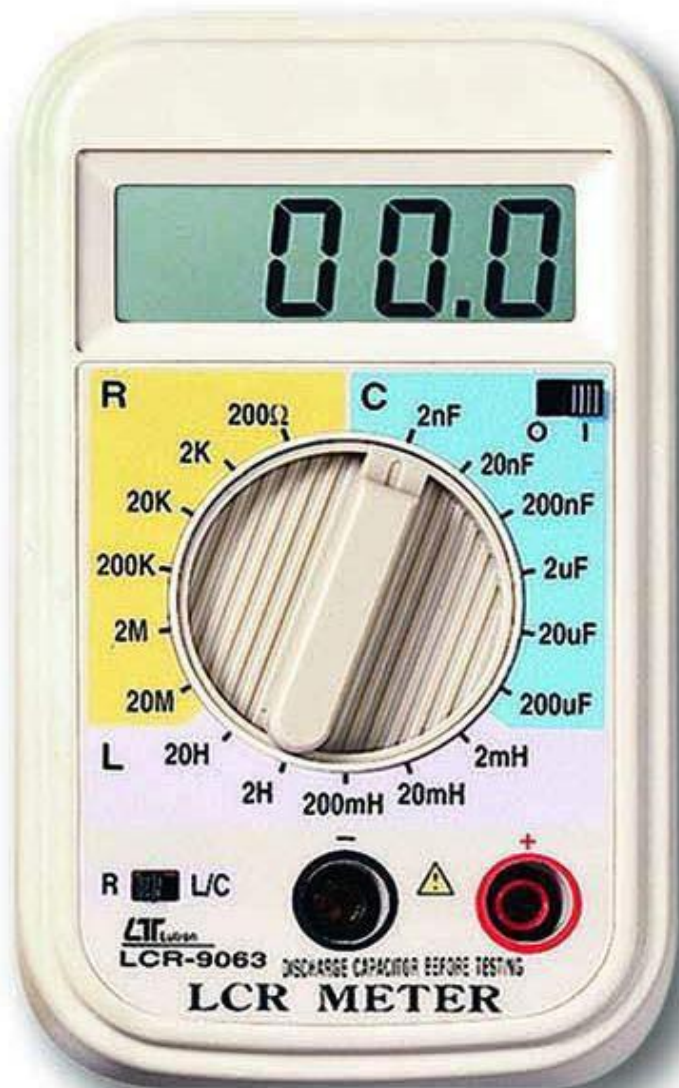
LCR METER

Model : LCR-9063

ISO-9001, CE, IEC1010

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The Art of Measurement

POCKET

DIGITAL LCR METER

Model : LCR-9063

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FEATURE

- * A pocket, Battery operated, Inductance, Capacitance and Resistance Meter.
- * LSI-circuit provides high reliability and durability.
- * LCD display for clear readout even in bright ambient * light conditions.
- * Rotary switch function selector .
- * Color-coded panel for easy identification of functions and ranges .
- * Low battery indicator.

GENERAL SPECIFICATION

Display	13 mm (0.5") LCD, 3 1/2 digits. Max. reading 1999.
Over-input indicator	" 1 " mark indication.
Sampling Time	Approx. 0.4 second.
Operating Temp.	0 to 50 °C (32 to 122 °F).
Operating Humidity	Less than 80% RH.
Power Supply	006 P DC 9V battery, heavy duty battery.
Dimensions	120 x 72 x 37 mm .
Weight	185 g/0.41 LB.
Power Consumption	R - Approx. 8 mA. L - Approx. 9 mA. C - Approx. 9 mA.
Accessories Included	Instruction Manual 1 PC Test alligator clips 1 pair

ELECTRICAL SPECIFICATIONS (23± 5 °C)

Inductance

Range	In-range Display	Resolution	Test Frequency	Accuracy
* 2 mH	0.02 mH-2 mH	1 uH	250 Hz	± (3 % + 3 d)
20 mH	2 mH-20 mH	10 uH	250 Hz	
200 mH	20 mH-200 mH	100 uH	250 Hz	
2 H	0.2 H-2 H	1 mH	250 Hz	± (5 % + 5 d)
20 H	2 H-20 H	10 mH	250 Hz	

uH = micro Henry (10⁻⁶ H). mH = mili Henry (10⁻³ H).
 * Zero stray inductance of 2 mH range (short ckt.) : 0 to -30 uH.

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	

pF= pico Farad (10⁻¹² F) nF= nano Farad (10⁻⁹ F) uF= micro Farad (10⁻⁶ F)
 * Zero stray capacitance of 2 nF range (open ckt.) : 30 pF



Resistance

Range	Resolution	Open Circuit Voltage	Accuracy
200 ohm	0.1 ohm	Approx. 600 mV	$\pm (2 \% + 3 d)$
2 k	1 ohm		
20 k	10 ohm		
200 k	100 ohm		
2000 k	1 k		
20 M	10 k	Approx. 300 mV	

Remark :

Though the internal test frequency is approx. 250 Hz. However the accuracy adjustment are executed as :

- * For the capacitance (2 uF, 200 nF, 20 nF, 2 nF) range, the accuracy adjustment is compared with the " Standard capacitor that tested under the 1 KHz frequency ".
- * For the capacitance (20 uF, 200 uF) range, the accuracy adjustment is compared with the " Standard capacitor that tested on the 100 Hz frequency ".
- * For the inductance (2 mH, 20 mH, 200 mH, 2 H) range, the accuracy adjustment is compared the " Standard inductor that tested on the 1 KHz ".
- * For the inductance (20 H) range, the calibration is compared the " Standard inductor that tested on the 100 Hz ".

* Appearance and specifications listed in this brochure are subject to change without notice.

LCR-9063+0609

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