

100 Hz / 120 Hz / 1 KHz / 10 KHz / 100 KHz, Professional

LCR METER

Email: sales-support@lutroninstrument.com

Mobile: +91 6284 873 149

Model : LCR-9184, LCR-9183

ISO-9001, CE, IEC1010



SMD TEST CLIP, optional
Model : SMDC-21



SMD TESTER, optional
Model : SMDA-22



LUTRON ELECTRONIC

The Art of Measurement



SMD TESTER

Model : SMDA-22

- * Optional SMD tester for LCR-9184, LCR-9183.
- * Useful tool for SMD components (Resistor, Capacitor, Inductor) LCR value measurement.

100 Hz/120 Hz/1 KHz/10 KHz/100 KHz

LCR METER, professional

Model : LCR-9184

- * Intelligent microprocessor circuit , professional.
- * 19999/1999 counts dual LCD display
- * Auto LCR smart check and measurement.
- * Test range : (ex : F = 1 KHz)
L : 200.00 uH to 2000.0 H
C : 2000.0 pF to 2.000 mF
R : 20.000 Ω to 200.0 MΩ
- * Series/Parallel modes are selectable.
- * DCR mode 200.00 Ω to 200.0M Ω
- * Five test frequency are available :
100 Hz/120 Hz/1 KHz/10 KHz/100 KHz
- * Ls/Lp/Cs/Cp with D / Q / θ / ESR Parameter.
- * LCD Display with backlight structure.
- * Power : DC 9V battery or DC 9V adapter in.
- * RS232/USB computer interface.
- * Optional SMD test clips, SMDC-21.
- * Optional SMD tester, SMDA-22.

Model : LCR-9183

- * Function same as the LCR-9184, but without LCD backlight structure, without sorting function and the spec. accuracy will large than LCR-9184.



SMD TEST CLIP

Model : SMDC-21

- * Optional SMD test clip for LCR-9184, LCR-9183.
- * Useful test clip for SMD components (Resistor, Capacitor, Inductor) LCR value measurement.

100 Hz/120 Hz/1 KHz/10 KHz/100 KHz
Ls/Lp/Cs/Cp/Rs/Rp with D/Q/θ /ESR parameters
professional

LCR METER

Model : LCR-9184

FEATURES

* 19,999/1,999 counts dual LCD display.
* AutoLCR smart check and measurement.
* Serial/Parallel modes are selectable.
* Ls/Lp/Cs/Cp with D/Q/θ /ESR parameters.
* Support DCR mode 1.00 Ω to 200.0 MΩ .
* Five different test frequency are available : 100 Hz/120 Hz/1 KHz/10 KHz/100 KHz.
* Test AC signal level : 0.6 mV rms typically.
* Test range : (ex. F = 1 KHz) L : 200.00 uH to 2000.0 H C : 2000.0 pF to 2.000 mF R : 20.000Ω to 200.0 MΩ
* Multi-level battery detector.
* LCD with green light backlight , easy reading.
* RS232/USB PC Computer interface.
* Can default auto power off.

GENERAL SPECIFICATIONS

Display	LCD size : 56.4 X 52.9 mm. LCD with green backlight (ON /OFF)
Test frequency	100 Hz/120 Hz/1 KHz/10 KHz/100 KHz
Function	L/C/R Function selector Frequency selector D/Q/θ /ESR selector Sorting mode selector Backlight
Dissipation factor	0.000 to 999
Quality factor θ measurement	0.000 to 999 ± 90°
Sorting tolerance mode	± 0.25%, ± 0.5%, ± 1%, ± 2%, ± 5% ± 10%, ± 20%, +80% -20%
Calibration	Open/Short calibration
Data Hold	Freeze the display reading
Data output	RS232/USB PC computer interface
Power off	Auto shut off saves battery life or manual off by push button
Operating temperature	0°C to 50°C
Operating humidity	Less then 85% R.H.
Power Supply	006P DC 9V battery * Alkaline or Heavy duty type DC 9V adapter input * AC/DC power adapter is optional.
Power consumption	DC 35 mA approximately
Dimension	193 x 88 x 41mm
Weight	420 g * meter only
Standard Accessories Included	* Instruction manual.....1 PC
Optional Accessories	SMD tester, SMDA-22 SMD test clip, SMDC-21 Holster, HS-03 AC to DC 9V adapter Hard carrying case, CA-06 Soft carrying case, CA-05A

ELECTRICAL SPECIFICATIONS (23± 5 °C)

Resistance (DCR)

Range	Accuracy	Remark
20 Ω	± (0.5% + 5d)	After Short CAL.
200 Ω	± (0.5% + 5d)	
2000 Ω	± (0.5% + 5d)	
20 KΩ	± (0.5% + 5d)	
200 KΩ	± (0.5% + 5d)	
2000 KΩ	± (0.5% + 5d)	After Open CAL.
20 MΩ	± (1% + 5d)	After Open CAL.
200 MΩ	± (2% + 5d)	After Open CAL.

Resistance (Rp/Rs)

Range	Accuracy	Accuracy	Remark
	100 Hz/120 Hz	1000 Hz	
20 Ω	± (1% + 5d)	± (1% + 5d)	After Short CAL.
200 Ω	± (0.5% + 5d)	± (0.5% + 5d)	
2000 Ω	± (0.5% + 5d)	± (0.5% + 5d)	
20 KΩ	± (0.5% + 5d)	± (0.5% + 5d)	
200 KΩ	± (0.5% + 5d)	± (0.5% + 5d)	
2000 KΩ	± (1% + 5d)	± (1% + 5d)	After Open CAL.
20 MΩ	± (1% + 5d)	± (2% + 5d)	After Open CAL.
200 MΩ	± (2% + 5d)	± (5% + 5d)	After Open CAL.

Range	Accuracy	Accuracy	Remark
	10 KHz	100 KHz	
20 Ω	± (1% + 5d)	± (2% + 5d)	After Short CAL.
200 Ω	± (0.5% + 5d)	± (0.5% + 5d)	
2000 Ω	± (0.5% + 5d)	± (0.5% + 5d)	
20 KΩ	± (0.5% + 5d)	± (0.5% + 5d)	
200 KΩ	± (0.5% + 5d)	± (0.5% + 5d)	
2000 KΩ	± (1% + 5d)	± (2% + 5d)	After Open CAL.
20 MΩ	± (2% + 5d)	-----	After Open CAL.

Capacitance (Cp/Cs) : D ≤ 0.1

Range	Accuracy	Accuracy	Remark
	100 Hz/120 Hz	1000 Hz	
20 pF	± (2% + 5d)	± (1% + 5d)	After Open CAL.
200 pF	± (1% + 5d)	± (1% + 5d)	After Open CAL.
2000 pF	± (0.8% + 5d)	± (0.8% + 5d)	After Open CAL.
20 nF	± (0.5% + 5d)	± (0.5% + 5d)	
200 nF	± (0.5% + 5d)	± (0.5% + 5d)	
2000 nF	± (0.5% + 5d)	± (0.5% + 5d)	
20 uF	± (0.5% + 5d)	± (0.5% + 5d)	
200 uF	± (0.5% + 5d)	± (0.5% + 5d)	After Short CAL.
2000 uF	± (1% + 5d)	± (1% + 5d)	After Short CAL.
20 mF	± (2% + 5d)	-----	After Short CAL.

Range	Accuracy	Accuracy	Remark
	10 KHz	100 KHz	
20 pF	± (1% + 5d)	± (1% + 5d)	After Open CAL.
200 pF	± (0.5% + 5d)	± (0.5% + 5d)	After Open CAL.
2000 pF	± (0.5% + 5d)	± (0.5% + 5d)	After Open CAL.
20 nF	± (0.5% + 5d)	± (0.5% + 5d)	
200 nF	± (0.5% + 5d)	± (0.5% + 5d)	
2000 nF	± (0.5% + 5d)	± (0.5% + 5d)	
20 uF	± (0.8% + 5d)	± (0.8% + 5d)	
200 uF	± (1% + 5d)	-----	After Short CAL.

Inductance (Lp/Ls) : D ≤ 0.1

Range	Accuracy	Accuracy	Remark
	100 Hz/120 Hz	1000 Hz	
20 uH	± (1% + 5d)	± (1% + 5d)	After Short CAL.
200 uH	± (1% + 5d)	± (1% + 5d)	After Short CAL.
2000 uH	± (0.8% + 5d)	± (0.8% + 5d)	
20 mH	± (0.5% + 5d)	± (0.5% + 5d)	
200 mH	± (0.5% + 5d)	± (0.5% + 5d)	
2000 mH	± (0.5% + 5d)	± (0.5% + 5d)	
20 H	± (0.5% + 5d)	± (0.5% + 5d)	
200 H	± (0.5% + 5d)	± (0.8% + 5d)	
2000 H	± (1% + 5d)	-----	After Open CAL.

Range	Accuracy	Accuracy	Remark
	10 KHz	100 KHz	
20 uH	± (1% + 5d)	± (1% + 5d)	After Short CAL.
200 uH	± (0.8% + 5d)	± (0.8% + 5d)	After Short CAL.
2000 uH	± (0.5% + 5d)	± (0.5% + 5d)	
20 mH	± (0.5% + 5d)	± (0.5% + 5d)	
200 mH	± (0.5% + 5d)	-----	
2000 mH	± (0.5% + 5d)	-----	

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* Function same as LCR-9184, but without LCD backlight structure, without sorting function and the accuracy will be larger than LCR-9184.