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

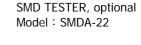
LCR METER

Model: LCR-9184, LCR-9183

ISO-9001, CE, IEC1010







SMD TEST CLIP, optional Model: SMDC-21





The Art of Measurement

Professional LCR





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 / $\theta/$ 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.

LCR METER

Model: LCR-9184

FEATURES

LATORES
* 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 M Ω .
* 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 M Ω
* Multi-level battery detector.
* LCD with green light backlight , easy reading.
* RS232/USB PC Computer interface.
* Can default auto power off.

GENERAL SPECIFICATIONS

GENERAL SPE	
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	0.000 to 999
factor	
Quality factor	0.000 to 999
θ	± 90°
measurement	
Sorting	± 0.25%, ± 0.5%, ± 1%, ± 2%, ± 5%
tolerance	± 10%, ± 20%, +80% -20%
mode	
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	0°C to 50°C
temperature	
Operating	Less then 85% R.H.
humidity	
Power Supply	006P DC 9V battery
	* Alkaline or Heavy duty type
	DC 9V adapter input
	* AC/DC power adapter is optional.
Power	DC 35 mA approximately
consumption	
Dimension	193 x 88 x 41mm
Weight	420 g
	* meter only
Standard	* Instruction manual1 PC
Accessories	
Included	
Optional	SMD tester, SMDA-22
Accessories	SMD test clip, SMDC-21
	Holster, HS-03
	AC to DC 9V adapter
	Hard carrying case, CA-06
	Soft carrying case, CA-05A
	1

ELECTRICAL SPECIFICATIONS (23 \pm 5 $^{\circ}$ 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 ΚΩ	± (0.5% + 5d)		
200 ΚΩ	± (0.5% + 5d)		
2000 ΚΩ	± (0.5% + 5d)	After Open CAL.	
20 ΜΩ	± (1% + 5d)	After Open CAL.	
200 ΜΩ	± (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 ΚΩ	± (0.5% + 5d)	± (0.5% + 5d)	
200 ΚΩ	± (0.5% + 5d)	± (0.5% + 5d)	
2000 ΚΩ	± (1% + 5d)	± (1% + 5d)	After Open CAL.
20 ΜΩ	± (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 ΚΩ	± (0.5% + 5d)	± (0.5% + 5d)	
200 ΚΩ	± (0.5% + 5d)	± (0.5% + 5d)	
2000 ΚΩ	± (1% + 5d)	± (2% + 5d)	After Open CAL.
20 MΩ	± (2% + 5d)		After Open CAL.

Capacitance (Cp/Cs) : D \leq 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): $D \le 0.1$

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)		

Model: LCR-9183

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

 $[\]ensuremath{^{*}}$ Appearance and specifications listed in this brochure are subject to change without notice.