

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

Model : LCR-9183

ISO-9001, CE, IEC1010



HOLSTER
Model : HS-03



SMD TESTER, optional
Model : SMDA-22



SMD TEST CLIP, optional
Model : SMDC-21



勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

The Art of Measurement

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

professional

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Model : LCR-9183

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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 V 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.
- * RS232/USB PC Computer interface.
- * Can default auto power off.

GENERAL SPECIFICATIONS

Display	LCD size : 56.4 X 52.9 mm.
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
Dissipation factor	0.000 to 999
Quality factor	0.000 to 999
θ measurement	± 90°
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 than 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 * Alligator clips.....1 Pair
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	± (0.8% + 5d)	After Short CAL.
200 Ω	± (0.8% + 5d)	
2000 Ω	± (0.8% + 5d)	
20 KΩ	± (0.8% + 5d)	
200 KΩ	± (0.8% + 5d)	
2000 KΩ	± (0.8% + 5d)	After Open CAL.
20 MΩ	± (1.5% + 5d)	After Open CAL.
200 MΩ	± (2.5% + 5d)	After Open CAL.

Resistance (Rp/Rs)

Range	Accuracy	Accuracy	Remark
	100 Hz/120 Hz	1000 Hz	
20 Ω	± (1.2% + 5d)	± (1.2% + 5d)	After Short CAL.
200 Ω	± (0.8% + 5d)	± (0.8% + 5d)	
2000 Ω	± (0.8% + 5d)	± (0.8% + 5d)	
20 KΩ	± (0.8% + 5d)	± (0.8% + 5d)	
200 KΩ	± (0.8% + 5d)	± (0.8% + 5d)	
2000 KΩ	± (1.5% + 5d)	± (1.5% + 5d)	After Open CAL.
20 MΩ	± (1.5% + 5d)	± (2.5% + 5d)	After Open CAL.
200 MΩ	± (2.5% + 5d)	± (6% + 5d)	After Open CAL.

Range	Accuracy	Accuracy	Remark
	10 KHz	100 KHz	
20 Ω	± (1.2% + 5d)	± (2.5% + 5d)	After Short CAL.
200 Ω	± (0.8% + 5d)	± (0.8% + 5d)	
2000 Ω	± (0.8% + 5d)	± (0.8% + 5d)	
20 KΩ	± (0.8% + 5d)	± (0.8% + 5d)	
200 KΩ	± (0.8% + 5d)	± (0.8% + 5d)	
2000 KΩ	± (1.5% + 5d)	± (3% + 5d)	After Open CAL.
20 MΩ	± (2.5% + 5d)	-----	After Open CAL.

Capacitance (Cp/Cs) : D ≤ 0.1

Range	Accuracy	Accuracy	Remark
	100 Hz/120 Hz	1000 Hz	
20 pF	± (2.5% + 5d)	± (1.5% + 5d)	After Open CAL.
200 pF	± (1.5% + 5d)	± (1.5% + 5d)	After Open CAL.
2000 pF	± (1.2% + 5d)	± (1.5% + 5d)	After Open CAL.
20 nF	± (1.0% + 5d)	± (1% + 5d)	
200 nF	± (1.0% + 5d)	± (1% + 5d)	
2000 nF	± (1.0% + 5d)	± (1% + 5d)	
20 uF	± (1.0% + 5d)	± (1% + 5d)	
200 uF	± (1.0% + 5d)	± (1% + 5d)	After Short CAL.
2000 uF	± (2% + 5d)	± (2% + 5d)	After Short CAL.
20 mF	± (3% + 5d)	-----	After Short CAL.

Range	Accuracy	Accuracy	Remark
	10 KHz	100 KHz	
20 pF	± (1.5% + 5d)	± (1.5% + 5d)	After Open CAL.
200 pF	± (1.0% + 5d)	± (1.0% + 5d)	After Open CAL.
2000 pF	± (1.0% + 5d)	± (1.0% + 5d)	After Open CAL.
20 nF	± (1.0% + 5d)	± (1.0% + 5d)	
200 nF	± (1.0% + 5d)	± (1.0% + 5d)	
2000 nF	± (1.0% + 5d)	± (1.0% + 5d)	
20 uF	± (1.5% + 5d)	± (1.5% + 5d)	
200 uF	± (2% + 5d)	-----	After Short CAL.

Inductance (Lp/Ls) : D ≤ 0.1

Range	Accuracy	Accuracy	Remark
	100 Hz/120 Hz	1000 Hz	
20 uH	± (1.5% + 5d)	± (1.5% + 5d)	After Short CAL.
200 uH	± (1.5% + 5d)	± (1.5% + 5d)	After Short CAL.
2000 uH	± (1.5% + 5d)	± (1.5% + 5d)	
20 mH	± (1.0% + 5d)	± (1.0% + 5d)	
200 mH	± (1.0% + 5d)	± (1.0% + 5d)	
2000 mH	± (1.0% + 5d)	± (1.0% + 5d)	
20 H	± (1.0% + 5d)	± (1.0% + 5d)	
200 H	± (1.0% + 5d)	± (1.5% + 5d)	
2000 H	± (2% + 5d)	-----	After Open CAL.

Range	Accuracy	Accuracy	Remark
	10 KHz	100 KHz	
20 uH	± (1.5% + 5d)	± (1.5% + 5d)	After Short CAL.
200 uH	± (1.5% + 5d)	± (1.5% + 5d)	After Short CAL.
2000 uH	± (1.0% + 5d)	± (1.0% + 5d)	
20 mH	± (1.0% + 5d)	± (1.0% + 5d)	
200 mH	± (1.0% + 5d)	± (1.0% + 5d)	
2000 mH	± (1.0% + 5d)	-----	