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STB8836 Series Precision LCR Meter

Features

- High precision: using automatic balancing bridge technology, four-terminal pair test configuration
- High speed: the fastest test speed is 5.6ms
- High resolution: 7 inches, 800×480 resolution
- 10-point multi-parameter list sweep function
- Mathematical operation function
- Automatic polarity function of varactor diode
- One-key screenshot function
- One key recording function
- 10-level sorting function, sound and light alarm for sorting results
- Large storage space:
  Built-in: 40 sets of setting files
  Expansion: 500 sets of setting files, image files, and data recording files can be stored through USB memory
- High compatibility: support SCPI commands, compatible with KEYSIGHTE4980A, E4980AL, HP4284A

RS232	USB HOST	USB DEVICE	HANDER	LAN	GPIB
standard	standard	standard	standard	standard	option

STB8836 Series

Dimension (mm): 400(W) x 132(H) x425(D).
Net weight : 15kg

Application

- Passive components:

Capacitors, Inductors, Magnetic Cores, Resistors, Piezoelectric Devices, Transformers, Chipsets

Impedance parameter evaluation and performance analysis of hardware and network components, etc.

- Semiconductor components:

Test and analysis of parasitic parameters of LED drive integrated circuits; C-V DC characteristics of varactor diodes; analysis of parasitic parameters of transistors or integrated circuits

- Other components:

Impedance evaluation of printed circuit boards, relays, switches, cables, batteries, etc.

- Dielectric material:

Dielectric constant and loss angle evaluation of plastics, ceramics and other materials

- Magnetic material:

Permeability and loss angle evaluation of ferrite, amorphous and other magnetic materials

- Semiconductor materials:

Dielectric constant, conductivity and C-V characteristics of semiconductor materials

- LCD unit:

C-V characteristics such as dielectric constant and elastic constant

Specifications

Model		STB8836
Display		7 inch TFT LCD Display 800×RGB×480
AC Parameters		Cp/Cs、Lp/Ls、Rp/Rs、|Z|、|Y|、R、X、G、B、θ、D、Q、Vac、Iac
DC Parameters		Rdc、Vdc、Idc
Test Frequency	Range	4Hz-8.5MHz
	Resolution	1mHz
Test Electric Level	AC Voltage	4Hz-1MHz：5mV-2Vrms 1MHz-8.5MHz：5mV-1Vrms
	Resolution	100μV
	AC Current	4Hz-2MHz：50μA-20mArms 2MHz-8.5MHz：50μA-10mArms
	Resolution	1μA
	DC Voltage	100mV-2V
	Resolution	100μV

DC Bias	Voltage	0V-±10V
	Resolution	100μV
	Current	0mA-±100mA
	Resolution	1μA
Test terminal configuration		Four-terminal pair
Cable Length		0、1米
Output Impedance		100Ω
Typical Measurement Time (speed)		Fast：5.6ms Medium：120ms Slow：230ms
Highest accuracy		1kHz ：0.05% 1MHz：0.05% 2MHz：0.1% 5MHz：0.5% 8.5MHz：1.0%
Displany Range		a：1×10^{-18}；E：1×10^{18}
Cs、Cp		±1.00000aF-999.999EF
Ls、Lp		±1.000000aH-999.999EH
D		±0.00001-9.99999
Q		±0.01-99999.9
R、Rs、Rp、X、Z、Rdc		±1.00000aΩ-999.999EΩ
G,B,Y		±1.00000aS-99.9999ES
Vdc		±1.000000aV-999.9999EV
Idc		±1.00000aA-999.999EA
θr		±1.00000rad-3.14159rad
θd		±0.0001deg-180.000deg
Δ%		±0.0001%-999.999%
Multifunction List Scan		10 dots. Parameter: Measurement parameter, test frequency, AcVoltage, AC current, DC Bias voltage and DC Bias current.
Graph sweep		Optional
Interface		USB HOST、USB DEVICE、HANDLER、RS232C Optional：GPIB
Warm-up time		60 minutes
Input voltage		100-120VAC/198-242VAC，47-63Hz
Power consumption		80VA
Dimension（WxHxD）mm^3		400x132x425
Weight		15kg