

STB8826 Series Precision LCR Meter

Features

- The first LCR meter with LXI standard in China.
- Test frequency:20Hz-5MHz with the resolution of 10mHz
- Test level:10mV-5V with the resolution of 1mV
- Basic accuracy:0.1%
- The highest test speed up to 200 times/s.
- 320×240 dot-matrix large graphic LCD display
- 5-digit display resolution
- 22 parameter combinations available
- 4 signal source output impedance
- 10 points list sweep function
- Built-in DC bias source
- Auto level control (ALC) function of voltage or current
- V,I test signal level monitor function
- Graphic scanning and analyzing function
- 20 groups of setting for storage/load
- Built-in comparator, 10-bins and bin counters
- Multiple communication interfaces
- 2m/4m cable length extension(Optional)
- Optional Chinese and English language operating interface

Applications

- **Passive component:**
Impedance parameter estimation and performance analysis of capacitor, inductor, magnetic core, resistor, piezoelectric devices, transformers, chip components and network components
- **Semiconductor component**
Parasitic parameter test and analysis of LED driver integrated circuit
C-VDC features of varactors
Parasitic parameter analysis of transistors or integrated circuit
- **Other components**
Impedance assessment of printed circuit boards, relays, switches, cables, batteries

Specifications

Measurement Parameters	C, L, R,Z,Y,X,B, G, D, Q, θ ,DCR	
Test frequency	STB8826	20Hz–5MHz,with the resolution of 10mHz
	STB8826A	20Hz–2MHz,with the resolution of 10mHz
Test Level	f≤1MHz	10mV–5V,±(10%+10mV)
	f>1MHz	10mV–1V,±(20%+10mV)
Output impedance	10Ω, 30Ω, 50Ω, 100Ω	
Basic Accuracy	0.1%	
Display Range	L	0.0001 uH – 9.9999kH
	C	0.0001 pF – 9.9999F
	R,X,Z,DCR	0.0001 Ω – 99.999 MΩ
	Y, B, G	0.0001 nS – 99.999 S
	D	0.0001 – 9.9999
	Q	0.0001 – 99999
	θ	-179.99° – 179.99°
Measuring Speed (meas/sec)	Fast: 200(f > 30kHz),100(f > 1kHz); Med: 25, Slow: 5	
Calibration function	Open/Shot /load	
Equivalent mode	Serial,Parallel	
Ranging Mode	Auto and Hold	
Display Mode	Direct, ABS, Rel	
Trigger Mode	Internal,Manual,External,BUS	
Internal DC bias source	Voltage mode	-5V – +5V,±(10%+10mV), with the resolution of 1mV
	Current mode (internal resistance is 50Ω)	-100mA – +100mA, ±(10%+0.2mA),with the resolution of 20uA
Comparator function	10 bins and bin counters	
Display	320×240 dot-matrix LCD display	
Memory	20 groups of control settings can be saved	
Interface	USB DEVICE(USBTMC and USB CDC support), USB HOST(FAT16 and FAT32 support), LAN(LXI class C support), RS232C,HANDLER,GPIB(option)	

Standard Accessories

- SBF0048 4 terminal test fixture
- SBF0011B 4 terminal Kelvin test clip leads
- SBF0010 Gilded shorting plate



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

STB8826/STB8826A

Dimension (mm): 400(W) x 132(H) x 385(D)
Net weight : 9.3kg

- **Dielectric material**
Dielectric constant and loss angle evaluation of plastics, ceramics and other materials
- **Magnetic materials**
Magnetic permeability and loss angle assessment of ferrite, amorphous body and other magnetic materials
- **Semiconductor materials**
Dielectric constant, electrical conductivity and C-V characteristics of semiconductor materials
- **Liquid crystal cell**
Dielectric constant, elastic constant and C-V characteristics of liquid crystal cell