

STB883X Series Compact LCR Meter

Features

- Low cost, high performance, small size
 - 4.3 inch TFT LCD Display
 - Soft power switch
 - Selectable Chinese-English operation language
 - Max. 200kHz test frequency
 - Max. 6 digit reading resolution
 - 10mVrms-2.0Vrms programmable signal level, built-in 0 - ± 5V/50mA bias source
 - DCR, 50mV-2V programmable test level, resolution 10μΩ
 - Ls-Rd / Lp-Rd Function (L, Rd display simultaneously) *
 - Highest test speed 13ms/time
 - Selectable 30Ω/100Ω signal source impedance
 - V/I monitor and auto level adjustment function
 - Built-in comparator, 10 bins sorting and count function
 - File storage and firmware update through U disk
 - RS232, RS485, USB, HANDLER, GPIB interface
- * Rd means DCR.



RS232	USB HOST	USB DEVICE	HANDLER
standard	standard	standard	standard
GPIB	RS485	SCANNER	
option	option	option	

STB883X Series

Rack mount (mm): 215(W) x 88(H) x 335(D)
Dimension (mm): 235(W) x 105(H) x 360(D)
Net weight: 3.6 kg

Applications

- Passive components: Evaluation of Impedance Parameters for Capacitors, Inductors, Cores, Resistors, piezoelectric devices, Transformers, Chip Components, and Network Components
- Other components: Impedance evaluation of printed circuit boards, relays, switches, cables, batteries, etc.

Specifications

Model		STB8830	STB8832
Basic measurement accuracy (See details in technical specification)	LCRZ	0.05%	0.05%
	DCR	0.1%	
	Calibration condition	Warm up time: ≥ 30 minutes ; Environment temperature: 23±5°C Signal level: 1Vrms ; Corretion: after OPEN, SHORT Testing cable length: 0 m	
Test signal frequency		20Hz-100kHz , Continuous	20Hz-200kHz, Continuous
Signal source output impedance		Selectable 30Ω, 100Ω, ±1% @1kHz	
AC test signal level	Normal	10mV—2Vrms	
		Resolution: 10mV, Accuracy: 10% x setting voltage+2mV	
		100μA—20mArms Resolution: 0.1mA	
	Constant level (ALC ON)	-----	

DCR test signal level		1V DC	50mV—2V DC Resolution: 0.5mV

DC bias voltage source	-----	0V— ± 5V	
	-----	Resolution: 0.5mV, Accuracy: 1%	
	-----	0mA—± 50mA	
	-----	Resolution: 0.5μA	
Test parameters	Z , Y , C, L, X, B, R, G, D, Q, θ, DCR		
DCR display range	0.00001 Ω – 99.9999 MΩ		
LCR parameters display range	Z , R, X 0.00001Ω — 99.9999MΩ Y , G, B 0.00001μs — 99.9999s C 0.00001pF — 9.99999F L 0.00001μH — 99.9999kH D 0.00001 — 9.99999 Q 0.00001 — 99999.9 θ(DEG) -179.999° — 179.999° θ(RAD) -3.14159 — 3.14159 Δ% -999.999% — 999.999%		
Display digits	6	6	
Measurement time (≥10 kHz)	Fast: 75 meas/sec(13ms), Medium:11 meas/sec(90 ms), Slow: 2.7meas/sec(370 ms)		
Equivalent circuit	Serial, Parallel		
Range mode	Auto, Hold		
Trigger mode	Internal, Manual, External, Bus		
Average time	1–255		
Correction	Open, Short, Load		
Math operation	Direct reading, ΔABS, Δ%		
Trigger delay time setting	0 - 60.000s, 1ms steps		
Step delay time setting	0 - 60.000s, 1ms steps		
List Sweep	·10 points list sweep ·Frequency, AC voltage/current, internal/ external bias voltage/ current can be swept. ·Each sweep point can be sorted separately.		
Comparator function	10 bins, BIN1–BIN9, NG, AUX		
	Bin count function		
	PASS, FAIL LED display on front panel		
Built-in Storage	Internal 100 LCRZ instrument setting files, 201 times test results		
USB Storage	Instrument setting files , measurement result CSV files, printed screen (GIF format)		
Interface	Control interface	HANDLER	
	Communication interface	USB HOST, RS232C, RS485(option), GPIB(option)	
	Storage interface	USB DEVICE (U-disk storage)	

Standard Accessories

Three core power cord

SBF0010 Gold-plated short circuit board

SBF0011CS 4 terminal pair Kelvin test clip leads

SBF0048A Four-terminal test fixture