

# Component Parameter Test Instruments

## A. TH2826/TH2826A 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 Chinese and English language operating interface



**TH2826/TH2826A**

### Brief Introduction

■ TH2826 series is a new generation impedance test instrument and firstly in conformity with LXI standard inland. It fulfills most low-voltage parameter measurement needs for components and materials with its basic accuracy (0.1%), wide frequency range (from 20Hz to 5MHz). The instrument is widely applied in microphone, resonator, inductor, ceramic capacitor, LCD, varactor and transformer .etc to analyze electrical performance and test low-ESR capacitor and high-Q inductor.

With the super high test speed, TH2826 series is especially for frequency response curve analyzing of detector and piezoelectric device on auto production line. Its multiple output impedance mode can be used for different standards of inductor or transformer manufacturers.

With its prominent performance, TH2826 series is in conformity with commercial and military standards, such as IEC and MIL standards.

### Specifications

Measurement Parameters	C, L, R,Z,Y,X,B, G, D, Q, $\theta$ ,DCR	
Test frequency	TH2826	20Hz–5MHz,with the resolution of 10mHz
	TH2826A	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
	$\theta$	-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)	

### General Specifications

Working Temperature & Humidity		0°C - 40°C, $\leq 90\% \text{RH}$
Power supply	Voltage	99V-121V, 198V-242V
	Frequency	47.5Hz-63Hz
Power Consumption		$\leq 80\text{VA}$
Dimensions (W×H×D)		400mm×132mm×385mm
Weight		Approx. 10kg

### Ordering Information

TH2826/TH2826A LCR Meter

### Instrument Accessories

TH26048	4 terminal test fixture
TH26011B	4 terminal Kelvin test clip leads
TH26010	Gilded shorting plate

### Options

TH26008A	SMD component test fixture
TH26009B	SMD test tweezers
TH10001	GPIB interface