

## Features

- Simultaneously display of four different parameters with flexible combinations
- AC and DC parameters can be measured simultaneously without interference; self-demagnetization
- Test frequency: 20Hz ~ 5MHz, 10mHz step
- Test level: 10mV ~5V, 1mV step
- Basic accuracy: 0.1%
- High speed and efficiency measurement: Max. 180 meas / sec
- Built-in bias voltage: -5V- + 5V; support bias mode
- Auto DUT trigger function: the DUT can be measured once be trigger and the measurement results and discrimination will be displayed.
- Automatic level control (ALC) function of V or I
- Test signal level monitor function of V and I
- Flexible limit comparator: support tolerance mode, sequence mode and parameter exchange
- Rapid and easy determination of Pass/Fail through multi-parameter test function
- Powerful list sweep function: mixed scanning of various excitation source and display of different parameters
- New graphical scanning functions: frequency / level / bias make nuanced analysis of elements
- Complete user correction function: up to 64 dot frequency correction
- Rich communication interfaces: RS232C/USB-CDC/USB-TMC/HANDLER/GPIB
- 2m/4m test cable extension(option)
- Chinese and English operation interface
- Multiple USB storage modes: CSV and TXT format for storing test data, BMP, PNG, GIF formats for stored on-screen images, U disk storage / recall setup files, U disk firmware upgrade
- Storage / recall of Parameters: real-time storage of all parameters without losing after shutdown; supporting internal storage of 120 groups, external storage and recalling of 600 groups



## U2826/A

### Brief Introduction

• U2826 LCR Meter is a new generation of impedance test equipment with high accuracy, wide measurement range and six digits resolution. Being possessed with test frequency up to 5 MHz, test voltage of 10mV-5V and built-in DC bias voltage of -5V~5V, it can meet all requirements for measuring components and materials and provide guarantees for production line quality assurance, incoming inspection and laboratory precision measurements. This product can be widely used in electric performance analysis of microphones, resonators, inductors, ceramic capacitors, LCD monitors, analyzes varactor diodes, transformers and so on.

Ultra-fast measurement speed of U2826 Series makes it particularly suitable for automatic production line of inspection machines and frequency response curve analysis of piezoelectric device .

Otherwise, the Handler, RS232C and GPIB interfaces as well as improved command system provided by the instrument make it easier to build the test system.

### Specifications

Measurement Function	
Test Parameters	Z ,C,L,R, X,  Y ,B,G,D,Q,θ,DCR
Basic Accuracy	0.1%
Measuring Speed	Fast: 180, Medium: 25, Slow: 5 (meas/sec)
Equivalent Mode	Serial, Parallel
Ranging Mode	Auto, Hold

Trigger Mode	Internal,Manual,DUT,External,BUS	
Correction	Open / short / load, full frequency, 64 dot frequency correction	
Graphics scanning	Frequency, level, bias voltage / current	
List sweep	20 points frequency, level, DC bias, DC source	
Display type	800x480,7-inch TFT LCD	
Memory	Internal:120 groups External:600 groups(U-disk)	

Test Signal		
Test Frequency	TH2826	20Hz – 5MHz; resolution:10mHz
	TH2826A	20Hz – 2MHz; resolution:10mHz
Output Impedance	10Ω, 30Ω, 50Ω,100Ω	
Test Level	f≤1MHz,10mV – 5V, Resolution: 10mV f> 1MHz,10mV – 1V, Resolution: 10mV	
Internal DC Bias	Voltage Mode	-5V – +5V, 1mV step
	Current Mode (internal resistance is 100Ω)	-50mA – 50mA ,100uA step

Measurement Display Range	
Z , R, X	0.0001Ω – 99.9999MΩ
Y , G, B	0.0001uS – 999.999S
C	0.00001pF – 99.9999mF
L	0.00001μH – 99.9999kH
D	0.00001 – 9.99999
θ(Deg)	-179.9° – 179.9°
θ(Rad)	-3.14159 – 3.14159
Q	0.01 – 99999.9
Δ%	-999.99% – 999.99%
DCR	1mΩ – 99.9999MΩ

Comparator and Interface	
Comparator	10 bins, BIN0 - BIN9, NG, AUX PASS / FAIL LED display
Interface	RS232C/USB-HOST/USB-CDC/ USB-TMC/HANDLER/GPIB(option)/SCANNER(option)

General Specifications		
Temperature & Humidity	0° C - 40° C, ≤90%RH	
Power Supply	Voltage	99V – 242V
	Frequency	47.5Hz – 63Hz
Power Consumption	≤60 VA	
Dimensions (W×H×D)	400mm×132mm×350mm	
Weight	Approx. 5.0kg	

### Order Information

U2826	High-frequency LCR Meter
U2826A	High-frequency LCR Meter

### Instrument Accessories

U26005	4 terminal test fixture
U26011	4 terminal Kelvin test clip leads
U26010	Gilded shorting plate

### Options

U26006	Axial component test fixture
U26008	SMD test fixture
U26009	SMD Kelvin test tweezers
U10301	GPIB interface
U10201	PC communication control software