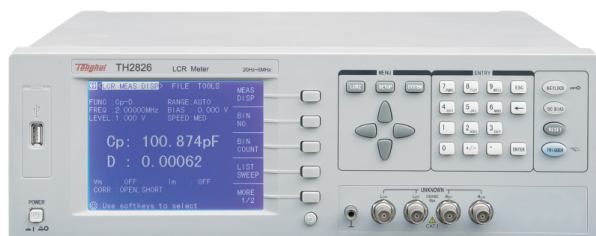


# Component Parameter Test Instruments

## C. 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                 | $f \leq 1\text{MHz}$  | 10mV-5V, $\pm(10\%+10\text{mV})$  |
|                            | $f > 1\text{MHz}$   | 10mV-1V, $\pm(20\%+10\text{mV})$  |
| Output impedance           | 10 $\Omega$ , 30 $\Omega$ , 50 $\Omega$ , 100 $\Omega$                          |   |
| Basic Accuracy             | 0.1%  |   |
| Display Range              | L   | 0.0001 $\mu\text{H}$ - 9.9999kH   |
|                            | C   | 0.0001 pF - 9.9999F   |
|                            | R, X, Z, DCR  | 0.0001 $\Omega$ - 99.999 M $\Omega$   |
|                            | 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 ( $f > 30\text{kHz}$ ), 100 ( $f > 1\text{kHz}$ )<br>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, $\pm(10\%+10\text{mV})$ , with the resolution of 1mV                     |
|                            | Current mode (internal resistance is 50 $\Omega$ )                              | -100mA - +100mA, $\pm(10\%+0.2\text{mA})$ , with the resolution of 20 $\mu\text{A}$ |
| 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   |   |
|                            | GPIO(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  | GPIO interface             |