

# Component Parameter Test Instruments

## A. TH2817B+ LCR Meter

### Features

- test frequency 50Hz,60Hz,100Hz,120Hz,1kHz,10kHz,20kHz,40kHz, 50kHz,100kHz, total 10 points
- 4.3 inch TFT liquid crystal display
- 50Hz-100kHz, 10 typical test frequencies
- 6-digit reading resolution
- Maximum test speed:12.5ms, support low frequency and high speed:TX4+3ms
- Chinese and English optional operation interface
- 10 bins sorting, test sorting is more perfect
- 100 sets of LCRZ instrument setting files, 10 measurements
- Soft power switch
- Support 110V/220V two power supply voltages
- 10-point list scanning, support multi-frequency test sorting
- Ultra-low signal source output offset (<100 $\mu$ V), meeting the needs of large inductor, common mode choke inductor test
- Super impact protection
- Power on state lock button;
- Empty fixture judgment
- Data logging function
- Screen capture function
- Interface function, timing, trigger delay, etc. are more complete



NEW

### TH2817B+(TH2817B Upgraded)

Support SCPI,MODBUS protocol

Rack mount (mm): 215(W) x 88(H) x 335(D)

Dimension (mm): 235(W) x 105(H) x360(D)

Weight: 3.6kg

Standard RS232/RS485(option)  USB HOST  USB DEVICE  HANDLER

### Features

- test frequency 50Hz,60Hz,100Hz,120Hz,1kHz,10kHz,20kHz,40kHz, 50kHz,100kHz, total 10 points
- Dedicated white backlit LCD display
- 50Hz-100kHz, 10 typical test frequencies
- 5-digit reading resolution
- Maximum test speed: 50ms
- User-friendly operation interface, easy to operate
- 5 bins sorting function, sorting result with sound and light alarm
- Storage space: 10 sets of setting files
- Automatic LCZ function



### TH2817B

Dimensions: 310mm(W)x108mm(H)x375mm(D)

Weight: 3.6kg

Standard RS232  HANDLER

option GPIB

### 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.

# Component Parameter Test Instruments

## A. TH2817B+ LCR Meter

### Specifications

|                             |  |   |
|-----------------------------|--|---|
| Model                       | TH2817B+   | TH2817B   |
| Basic accuracy              | 0.1%   |   |
| Test frequency              | 50Hz,60Hz,100Hz,120Hz,1kHz,10kHz,20kHz,40kHz, 50kHz,100kHz, total 10 points  |   |
| Test parameters             | L,C,R,Z ,D,Q,X,θd,θr,Vm,Im,Δ%  | L,C,R, Z ,Q,D,X,θ                                       |
| V/I monitor                 | Yes  | -----   |
| AC test signal level        | 0.1Vrms,0.3Vrms,1Vrms  |   |
| Test terminal configuration | 5-terminal   |   |
| Test speed (ms/time)        | Fast: 19ms;Medium:83ms;Slow: 333ms<br>F≤120Hz Fast :4XT+3ms  | Fast: 50ms;Medium:125ms;Slow: 500ms                     |
| Zero clearing               | Open, Short, Load  | Open, Short   |
| List sweep                  | 10-point list sweep<br>Each scan point can be individually sorted, support multi-frequency combined test sorting<br>Scanning test for frequency and AC voltage           | -----   |
| Equivalent Circuit          | Series, Parallel   |   |
| Range mode                  | AUTO, HOLD   |   |
| Trigger mode                | Internal, External, Manual, Bus  |   |
| Average times               | 1-255  | -----   |
| Arithmetical operation      | Direct reading,ΔABS,Δ%   | Direct reading,Δ%                                       |
| Delay                       | Trigger delay, step delay: 0—60.000s, 1ms step   | -----   |
| General function            | Series, parallel equivalent mode, calibration: open circuit, short circuit, range selection: automatic, manual, trigger mode: INT, MAN, EXT, BUS, keyboard lock function |   |
| Comparator                  | 10 bins sorting,BIN1-BIN9,NG,AUX; Bin count function PASS, FAIL front panel LED display  | 5 bins sorting, PASS/FAIL instructions                  |
| Memory                      | Nonvolatile storage  | 100 sets of LCRZ instrument setting files               |
|                             | USB Storage  | Instrument setting files , measurement result CSV files |
| Interface                   | RS232/RS485(option),HANDLER,USB HOST,USB DEVICE  | RS232,HANDLER,GPIB(option)                              |

### Instrument Accessories

Three core power cord  
 TH26048A 4-terminal test fixture  
 TH26011CS 4-terminal Kelvin test cable  
 TH26010 Gilded shorting plate

### Instrument Accessories

Three core power cord  
 TH26005A 4-terminal test fixture  
 TH26011AS 4-terminal Kelvin test cable  
 TH26010 Gilded shorting plate