

Component Parameter Test Instruments

I. 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 μ 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

Specifications

| | | |
|-----------------------------|---------------------|--|
| Model | | 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, θ d, θ r,Vm,Im, Δ % |
| 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 F≤120Hz Fast :4XT+3ms |
| Zero clearing | | Open, Short, Load |
| List sweep | | 10-point list sweep Each scan point can be individually sorted, support multi-frequency combined test sorting 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, Δ ABS, 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, FALL front panel LED display |
| 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 |

Standard Accessories

Three core power cord

TH26048A 4-terminal test fixture

TH26011CS 4-terminal Kelvin test cable

TH26010 Gilded shorting plate



| RS232/RS485(option) | HANDLER | USB HOST | USB DEVICE |
|---------------------|----------|----------|------------|
| standard | standard | standard | standard |

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

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

I. TH2817C+ 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
- 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
- Range configuration 3/10 times stepping configuration to ensure stable and reliable impedance full range test
- Ls-Rdc / Lp-Rdc function
- Ultra-low signal source output offset (<100 μ 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

Specifications

| | | |
|-----------------------------|--|--|
| Model | TH2817C+ | |
| Basic accuracy | 0.1% | |
| Test frequency | 50Hz,60Hz,100Hz,120Hz,1kHz,10kHz,20kHz,40kHz, 50kHz,100kHz, total 10 points | |
| Test parameters | LCR | L, C, R, Z , D, Q, X, θ_d , θ_r , Vm, Im, $\Delta\%$ |
| | Transformer | M, N, 1/N, L1/L2, DCR1/DCR2, C(primary-secondary), P(phase), Lk1/Lk2(leakage inductance) |
| | Balance test | L, R, Z, DCR |
| V/I monitor | Yes | |
| Test level | AC | 0.1Vrms,0.3Vrms,1Vrms |
| | DC | ± 1 V |
| DC bias | ----- | |
| Source impedance | 10 Ω , 100 Ω optional | |
| Test terminal configuration | 5-terminal | |
| Test speed (ms/time) | Fast: 19ms;Medium:83ms;Slow: 333ms | |
| Zero clearing | Open, Short, Load | |
| List sweep | 10-point list sweep | |
| Equivalent Circuit | Series, Parallel | |
| Range mode | AUTO, HOLD | |
| Trigger mode | Internal, External, Manual, Bus | |
| Average times | 1-255 | |
| Arithmetical operation | Direct reading, Δ ABS, $\Delta\%$ | |
| 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, FALL front panel LED display | |
| 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 | |

Standard Accessories

Three core power cord

TH26049A test fixture

TH26048A 4-terminal test fixture



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|---------------------|----------|----------|------------|
| RS232/RS485(option) | HANDLER | USB HOST | USB DEVICE |
| standard | standard | standard | standard |

TH2817C+(TH2817C/CX Upgraded) Support SCPI,MODBUS protocol

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

Dimension (mm): 235(W) x 105(H) x 360(D)

Weight: 3.6kg

Applications

■ Passive components:

Evaluation of Impedance Parameters for Capacitors, Inductors, Cores, Resistors, piezoelectric devices, Transformers, Chip Components, and Network Components

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