

TH2817 LCR Meter

Features

- 6 selectable typical measurement frequencies, up to 100kHz
- Measurement speed up to 20times/second
- Direct, absolute deviation, relative deviation
- Test level monitor
- Sorting alarm control and alarm mode selection
- Set parameter lock function
- 4-bin sorting and HANLDER interface



TH2817

Brief Introduction

■ TH2817 LCR meter is an impedance measurement instrument with high accuracy, wide measurement range, 6 selectable typical frequencies (100Hz, 120Hz, 1kHz, 10kHz, 40kHz, 100kHz), and 3 test levels (0.1V, 0.3V, 1.0V). It can be used to measure many parameters, including inductance L, capacitance C, resistance R, etc. Combining strong functions, good performance, and easy operation, the meter can be used for high-speed measurement on production line and high-accuracy measurement in laboratory. HANDLER and RS232C interfaces help build an automatic component sorting system and communicate with computer. And measurement conditions can be sent to printer through printer interface. TH2817 LCR meter offers good performance at a low cost.

General Specifications

Operating temperature & humidity		0°C - 40°C, ≤90%RH
Power supply	Voltage	198V - 242V
	Frequency	47.5Hz - 63Hz
Power consumption		≤ 20VA
Dimensions (W×H×D)		350mm×110mm×340mm
Weight		Approx. 3.8kg

Specifications

Measurement function	
Measurement parameter	L-Q, C-D, R-Q, Z -Q, Z -D
Basic accuracy	0.05%
Equivalent circuit	Series, parallel
Mathematical function	Absolute value deviation, Δ%
Rang mode	Auto, Hold
Trigger mode	Internal, Manual and External
Measurement speed	Fast: 20, Medium: 5.1, Slow: 1.5 (times/second)
Average times	1 - 99
Calibration function	Open/Short sweep correction
Measurement terminal	5-terminal
Display mode	Direct, Δ, Δ%, V/I (voltage/current moniot)
Display	Double 5-digit LED display
Measurement signal	
Signal frequency	100Hz, 120Hz, 1kHz, 10kHz, 40kHz, 100kHz
Output impedance	Dependent on range
Test level	0.1Vrms, 0.3Vrms, 1Vrms
Measurement display range	
Z , R	0.0001 Ω — 99.999 MΩ
C	0.0001 pF — 99999μ F
L	0.0001 μH — 9999.9 H
D, Q	0.0001 — 99999
Δ%	0.00% — 9999%
Comparator and interface	
Comparator	4-bin sorting, alarm volume selection, alarm state selction
Interface	RS232C, Handler, Printer

Ordering Information

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Instrument Accessories

TH26005	4-terminal test fixture
TH26011	4-terminal Kelvin test cable
TH26010	gilded shorting plate

Options

TH26001	4-terminal test fixture
TH26005-2	4-terminal test fixture
TH26006	axial component test fixture (used with TH26005)
TH26007	core inductor test fixture
TH26008	SMD component test fixture
TH26009	SMD test tweezers
TH26029A	SMD test tweezers
TH26004-1	4-terminal Kelvin test cable
TH26011A	4-terminal pair Kelvin test cable
TH12006	RS232C control software