Component Parameter Test Instruments

C. TH2817B/TH2817C LCR Meter

Features

- Special LCD display
- 10 typical measurement frequencies from 50Hz to 100kHz
- Built-in ±2VDC bias voltage source, extendable to -5VDC~+5VDC bias voltage or max. bias current of 50mA(only TH2817C)
- = 2 selectable source impedance: $30\Omega/100\Omega$, easy to be compatible with other LCR meters
- Measurement speed up to 20 times/second
- Transformer parameter measurement function (only for TH2817C)
- Built-in 5-bin comparator
- Key lock function
- Automatic LCZ function
- 10 sets of measurement parameters saved
- Automatically recalling saved measurement parameters
- HANDLER and RS232C interfaces
- Optional GPIB (IEEE-488) interface



TH2817B/TH2817C

Brief Introduction

■ TH2817B/TH2817C LCR meter is newly-developed component measurement instrument providing high performance at low cost. It is perfect combination of general LCR meter and high-performance LCR meter with high-accuracy. The meter provides measurement speed up to 20times/second, 10 measurement frequencies from 50Hz to 100kHz, 3 common typical test levels, 5-digit resolution, two innersource resistance selections and strong measurement functions. So it's suitable for measurement of quality control on production line, incoming inspection, component design and evaluation.

High performance at low cost

■With the base of our years' experience of developing LCR meter, the meter reasonably combines easy operation and strong functions, and improves performance of 100kHz LCR meter. It is ideal instrument for incoming inspection and production line use.

Communication interfaces

■TH2817B/TH2817C provides HANDLER, RS232C, GPIB interfaces, through which the meter can communicate with computer and build automatic measurement system and product test line.

Convenient parameter saving and loading

■TH2817B/TH2817C can save 10 sets of measurement parameters, and automatically load saved parameters, which doesn't have the trouble of repeat setting.

Useful transformer measurement function

■TH2817C has transformer measurement function. Using special transformer test fixture, turns ratio (N, 1/N), mutual inductance (M), primary and secondary inductances (L2A, L2B), primary and secondary DC resistances (DCR, R2) can be measured without changing test cable mode. With adjustable bias voltage from -5V to +5V or DC bias current up to 150mA, the meter can conveniently measure communication transformer and choke with small power.

Specifications

		TH2817B	TH2817C		
Measurement function					
		IZI. R.X.G	$ Z $, R,X,G,B,C, L, Q,D, θ (deg), θ (red)		
	former		DCR, M, N, 1/N, L2, DCR2		
Basic accuracy		0.1%			
Equivalents circuit		Series, parallel			
Mathematical function		Absolute value deviation, Δ%			
Ranging mode		Auto, Hold, Manual selection			
Trigger mode		Internal, Manual, External, BUS			
Measurement speed		Fast: 20, Med: 8, Slow: 2 (times/second) (≥1kHz)			
Average times		1 - 99			
Calibration function		Open/Short frequency point, full frequency correction			
Measurement terminal		5-terminal			
Display mode		Direct, Δ, Δ%			
Display		5-digit resolution, special LCD display with backlight			
Measurement signal		With baok			
Signal frequency		10 points: 50Hz, 60Hz, 100Hz, 120Hz, 1kHz, 10kHz, 20kHz, 40kHz, 50kHz, 100kHz			
Output impedance		30Ω, 100Ω			
Test level		0.1Vrms, 0.3Vrms, 1Vrms			
DC bias source			Fixed ±2VDC, 0~±5VDC adjustable 0~±50mA DC adjustable		
Measurement display range					
Z , R, X		0.0001Ω - 99.999ΜΩ			
C		0.001pF - 9999.9µ F			
L		0.001µH - 99.999kH			
D			0.0001 - 9.9999		
Q		0.0001 -	0.0001 - 9999.9		
θ (DEG)		-179.99° - 179.99 °			
θ (RAD)		-3.1415 - 3.1415			
Δ%		-99.999% - 999.99%			
N,1/N			0.001 - 999.99		
DCR			0.1mΩ - 199.99kΩ		
M,L2			0.001µH - 99.99kH		
Comparator and interface					
Comparator		5 bins (3 PASS bins, 1 FAIL bin), 1 AUX bin			
I Memory		10 sets of inner instrument settings saved and recalled			
Interface		RS-232C, HANDLER, GPIB (option)			

General Specifications

Operating temperature & Humidity	0°C - 40°C, ≤90%RH
Power supply	198V - 242V, 47.5Hz - 52.5Hz
Power consumption	≤ 30VA
Dimensions (W×H×D)	275mmx120mmx425mm
Weight	Approx. 3.8 kg

Ordering Information

TH2817B LCR Meter TH2817C LCR Meter

Instrument Accessories

TH26005A 4-terminal test fixture
TH26011A 4-terminal Kelvin test cable
TH26010 Gilded shorting plate

TH26038 transformer test fixture (only for TH2817C)

Options

TH26047 4-terminal test fixture
TH26048 4-terminal test fixture
TH26005B 4-terminal test fixture

TH26006 axial component test fixture (used with TH26005A)

TH26007 core test fixture
TH26008A SMD component test fixture

TH26009B SMD test tweezers TH26029B SMD test tweezers TH10001 GPIB interface

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