

Component Parameter Test Instruments

C. TH2617B Precision Capacitance Meter

Features

- Large-size LCD DISPLAY with white backlight
- 5-digit dual-parameter display
- 10 typical frequencies from 50Hz to 100kHz
- 3 typical levels: 0.1Vrms, 0.3Vrms, 1.0Vrms
- Source impedances: 30 Ω , 100 Ω
- Measurement speed up to 20 measurements/second
- Open/Short correction
- Built-in 3-bin comparator
- 10 sets of test parameters saved
- Standard RS232C and HANDLER interfaces
- Optional GPIB (IEEE-488) interface



TH2617B

Brief Introduction

TH2617B is a newly-developed capacitance meter with high-quality performance at a low cost. Integrating our successful experience and technology, the meter is a perfect combination of simple general-purpose capacitance meter and that with strong functions. It can be widely used for quality control on production line, incoming inspection, and component evaluation.

Specifications

Display	LCD display with white backlight
Measurement parameters	Z , C, R, D, θ (deg), θ (rad)
Test frequency	10 points: 50Hz, 60Hz, 100Hz, 120Hz, 1KHz, 10KHz, 20KHz, 40KHz, 50KHz, 100KHz
Test level	0.1Vrms, 0.3Vrms, 1Vrms
Signal source impedance	30 Ω , 100 Ω
Basic accuracy	0.1%
Measurement Speed	Fast: 20 times/second, Medium: 8 times/second, Slow: 2 times/second (≥ 1 kHz)
Equivalent Mode	Serial, Parallel

Range Mode	Auto, Hold, Manual	
Trigger Mode	Internal, Manual, External, BUS	
Average Time	1—99	
Correction	Open, Short	
Measurement Terminals	5 Terminals	
Display mode	Direct, Δ ABS, Δ %	
Display range	Z , R	0.0001 Ω — 99.999M Ω
	C	0.001 pF — 99999 μ F
	D	0.0001 — 9.9999
	θ (DEG)	-179.99° — 179.99°
	θ (RAD)	-3.1416 — 3.1416
	Δ %	-99.999% — 99.999%
Comparator Function	4-bin sorting (3 PASS bins, 1NG bin), and an AUX bin	
Memory	10 sets of test parameters saved/loaded	
Interface	RS-232C, HANDLER, GPIB (optional)	

General Specifications

Working temperature & humidity	0°C–40°C, $\leq 90\%$ RH
Power Requirements	198V–242V, 47.5Hz–63Hz
Power consumption	≤ 30 VA
Dimensions (W×H×D)	275mm×120mm×425mm
Weight	Approx. 3.6 kg

Ordering Information

TH2617B Precision Capacitance Meter

Instrument Accessories

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

Options

- TH26001A 4-terminal test fixture
- TH26005B 4-terminal test fixture
- TH26006 Axial component test fixture (used with TH26005A)
- TH26007 Core test fixture
- TH26008 SMD component test fixture
- TH26009B SMD test tweezers
- TH26029B SMD test tweezers
- TH17B01 GPIB interface board