

# Component Parameter Test Instruments

## C. TH2619 Capacitance Meter

### Features

- Ultrahigh measurement speed: 13ms
- Large LCD (240×64 dot-matrix graphic) display
- Humanization operation board
- 3 typical measurement frequencies: 100Hz, 20Hz, 1kHz
- Programmable test level from 10mVrms to 1.0Vrms
- Large-amount ceramic capacitor constant-level measurement
- Accurate load correction
- 5 selectable source impedance modes
- Built-in 10-bin comparator, sorting and bin counter
- Hi/Go/Low comparison judgment and beeper alarm
- Key lock function
- Test signal level monitor function
- 12 sets of measurement settings saved
- Measurement parameter saved automatically loaded



**TH2619**

### Brief Introduction

■ TH2619 high-speed capacitance meter is our newly-developed low-frequency capacitor parameter measurement instrument. It offers incomparable measurement speed up to 13ms/time, which solves problem of low measurement speed at low frequency. It is ideal instrument to perform fast measurement for electrolytic capacitor, ceramic capacitor, etc. Multilayer ceramic capacitor (MLCC) is rather sensitive to measurement signal. And TH2619 can measure large-amount MLCC at high speed with constant high-level measurement signal. It is allowed to measure MLCC of 30μF at constant 1kHz/1Vrms, and measure MLCC of 300μF at 100Hz/1Vrms.

### General Specifications

Operating temperature		0°C-40°C
Operating humidity		≤90%RH
Power	Voltage	99V-242V
	Frequency	47.5Hz-63Hz
Requirements		
Power consumption		≤ 30 VA
Dimensions (W×H×D)		350mm×120mm×425mm
Weight		Approx. 4.8 kg

### Specifications

#### Measurement function

Measurement parameters	$C_p$ -D, $C_p$ -R <sub>p</sub> , C <sub>s</sub> -D, C <sub>s</sub> -R <sub>s</sub> , R <sub>p</sub> -Q, R <sub>p</sub> -D, R <sub>s</sub> -Q, R <sub>s</sub> -D, Z <sub>s</sub> -Q, Z <sub>s</sub> -D
Basic accuracy	0.1%
Equivalent circuit	Series and Parallel
Mathematical functions	ΔABS, Δ%
Ranging mode	Auto, Hold, Manual
Trigger mode	Internal, Manual, External, BUS
Measuring Speed(1KHz)	Fast:20, Med:5.1, Slow:2.5 (meas/sec)
Average times	1 - 255
Calibration function	Open/Short/Load correction
Measurement terminals	5 terminals
Display Mode	Direct, ΔABS, Δ%, V/I (V/I monitor), Bin No., Bin counter
Display	240×64 dot-matrix LCD display with 5-digit resolution
<b>Test signal</b>	
Test Frequency	100Hz, 120Hz, 1kHz
Output impedance	25Ω, 100Ω, 25Ω/100Ω, C.V.
Signal level	10mV - 1.0V, with step of 1mV <200mV, step 1mV, ≥200mV, step 10mV
<b>Measurement display range</b>	
R	0.0001Ω - 99.999MΩ
G	0.0001μS - 999.99S
C	0.001pF - 1.9999F
D	0.0001 - 9.9999
Q	0.0001 - 99999
Δ%	-99.999% - 999.999%

Note1: Fast measurement time includes A/D, calculation, main/sub parameter comparison judgment, and small-character display of measurement parameter. If measurement parameter is displayed in large character, the fastest measurement time will be added by another 5ms.

### Ordering Information

TH2619 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 TH26005)
TH26008	SMD component test fixture
TH26009B	SMD component test tweezers
TH26029B	SMD component test tweezers
TH26004-1	4-terminal Kelvin test cable
TH10001	GPIB interface board