

# Component Parameter Test Instruments

## C. TH2821/TH2821A/TH2821B Portable LCR Meter

### Features

- Portable LCR Meter
- Large LCD display
- 0.3% basic accuracy ,resolution:0.01%
- Primary and secondary parameter dual display
- 100Hz,120Hz and 1KHz test frequencies
- Complete four-terminal measurement
- Auto Power Off function
- Battery and external power supply
- Sweep frequency correction function
- 4 bins comparator

### Portable flexibility & desk meter's performance



**TH2821A**

**TH2821B**

### Brief Introduction

■ TH2821/A/ is the first portable LCR meter with MPU control in China. It can measure following 6 parameters: L,C,R, |Z|,D and Q with 0.3% basic accuracy, 3 meas/sec measurement rate and suitable 4 Bins comparator. The use of complete 4-terminal measurement makes it possible for accurate low dissipation capacitor measurement with a portable meter. This portable meter can be used instead of a general purpose low frequency LCR meter with its good performance. With the battery and external power supply,TH2821 is ideal for field and portable applications such as fixed place component inspection and immediate measurement by buyers and maintenance personnel.

### Specifications

Test parameter	L-Q, C-D, R-Q,  Z -Q	
Test Frequency	TH2821	100Hz, 120Hz,1KHz
	TH2821A	100Hz, 120Hz,1KHz,10KHz
	TH2821B	100Hz, 120Hz,1KHz

Test Level	0.3Vrms(1 ± 10%)	
Basic Accuracy	0.3%	
Measuring Speed	Approx 3 meas/sec	
Equivalent Circuit	Series and Parallel	
Measuring Range	C	0.01pF — 9999μF
	L	0.01μH — 9999H
	Z , R	0.0001Ω — 99.999MΩ
	D,Q	0.0001 — 9.9999
	Δ%	-999.99% — 999.99%
Ranging Mode	Auto and Hold	
Display mode	TH2821	Direct, Δ%, ΔABS
	TH2821A	Direct, Δ%, ΔABS
	TH2821B	Direct
Measurement Terminals	5 Terminals	
Calibration Function	Open and Short Sweep Zeroing	
Comparator Function	4 Bins: NG, P1, P2, P3	

### General Specifications

Operating Temperature And Humidity	0°C–40°C, ≤90%RH	
Power Requirements	TH2821	Battery 1604, 9V or Adapter 12V DC,150mA
	TH2821A	GP17R8H Rechargeable Battery or 12V Dc, 150mA
	TH2821B	Battery 1604, 9V or Adapter 12V DC,150mA
Operation current	TH2821/TH2821B	≤ 25mA
	TH2821A	≤ 40mA
Dimensions (W×H×D)	200mm×95mm×40mm	
Weight	Approx. 400 g	

### Ordering Information

TH2821 Portable LCR Meter  
 TH2821A Portable LCR Meter  
 TH2821B Portable LCR Meter

### Instrument Accessories

TH26027 4 terminal Kelvin test clip leads  
 TH26028 AC power adapter  
 1604A 9V Model 1604A 9V battery (TH2821/TH2821B)  
 GP17R8H Rechargeable battery (TH2821A)

### Options

TH26029 SMD component test fixture