Component Parameter Test Instruments

A. TH2816A/TH2816B/TH2817A Precision LCR Meter

Features

- 240×64 dot-matrix graphics LCD display
- Friendly user's interface and easy operation
- TH2816A: Over 12,000 frequency points available from 50Hz to 200kHz
- TH2816B: 37 typical frequency points
- TH2817A:16 typical frequency points available from 50Hz to 100kHz
- Programmable single-voltage level from 10mVrms to 2.0Vrms
- High stability and accuracy
- 6 digit readout resolution
- Up to 30meas/sec measurement rate
- Precision LOAD correction function
- Selectable signal source output impedances: 30Ω, 100Ω
- Direct control function for TH1773/TH1775 DC bias source
- List sweep function for up to 4 frequencies, signal levels and DC bias levels
- Direct, Δ ABS and Δ% display modes
- 12 control setting files memory
- Built-in comparator, 10 Bins and bin counters (TH2816A/B)
- Built-in comparator, 4 Bins and bin counters(TH2817A)
- Test signal level monitor function
- Key lock function
- Handler interface
- RS-232C and optional GPIB interfaces

TH2816A/TH2816B/TH2817A

Brief Introduction

TH2816A/TH2816B/TH2817A is a new precision LCR meter combined with years of technical experience and newest measurement technology of instrument industry. With powerful measurement functions, high performance and low cost, TH2816A/TH2816B/TH2817A have been one of the world advanced instruments, and it provides users a super value measurement resolution and experience. The meter offers stable 6 digit resolution, wide frequency range (50Hz to 100kHz for TH2817A and 50Hz to 200kHz for TH2816A), programmable signal level (0.01V to 2.0V), up to 30 meas/sec measurement rate, 9 measurement ranges, 30Ω or 100Ω constant output impedance and friendly operation interface. TH2816A/TH2816B/TH2817A can be used for incoming inspection of components, quality control of product line and high accuracy laboratory use. The HANDLER, GPIB, RS232C interfaces make it easy to build an automatic component test system, communicate with the computer and record the test results.

Specifications

Measurement function		
Test parameter	|Z|, C, L, X, B, R, G, D, Q, θ	
Basic accuracy	TH2816A TH2817A	0.05%
	TH2816B	0.1%
Equivalent circuit	Series and Parallel	
Math function	Deviation and Percent Deviation	
Ranging mode	Auto, Hold	
Trigger mode	Internal, Manual, External and Bus	
Measuring speed	Slow: 1.5meas/sec Med: 10meas/sec Fast: 30meas/sec	
Correction function	Open, Short and Load corrections	
Measurement terminal	5 terminals	
Averaging rate	1—255 , TH2816A/TH2817A only	
Delay time	0—60sec , with step of 1ms	
List sweep	List sweep for up to 4 frequencies, signal levels and DC bias levels	