

AD2817D Precision LCR Meter Features

- Four different parameters displayed simultaneously, flexible and comfortable combination
- High speed and efficiency measurement: the fastest 65 times / sec (including display)
- Built-in typical DC bias: 0V/1.5V/2.0V/4.0V/5.0V
- Automatical DUT trigger function: Plug & Measure, results and discriminant single displayed
- Powerful list sweep function: variety of different parameters and excitation sources can be mixed sweep test and displayed
- New graphics scanning and analyzing function: support frequency/level/DC bias/DC source
- Complete user correction function: 64 points frequency correction can be applied to multi-channel scanning
- RS232C/USB-CDC/USB-TMC/HANDLER/GPIB interface
- 500 groups of setting for storage/recall



Brief Introduction

AD2817D is a new generation precision LCR meter with high-precision, wide measurement range and six digit resolution. AD2817D can be used for incoming inspection of components, quality control of product line and laboratory use over a wide range of frequency (50Hz to 100kHz), test signal level (10mV to 2V), built-in typical DC bias and DC voltage source output (-10V to 10V). The RS232C, GPIB, Handler interfaces and perfect command system make it easy to build an automatic component test system, communicate with the computer and record the test results.

General Specifications

Temperature & Humidity	0°C - 40°C, ≤90%RH	
Power Supply	Voltage	99V - 242V
	Frequency	47.5Hz - 63Hz
Power Consumption	≤20 VA	
Dimensions(W×H×D)	350mm×120mm×360mm	
Weight	Approx. 3.5kg	

Specifications

Measurement Function

Test Parameters	Z , C, L, R, X, Y , B, G, D, Q, θ
Basic Accuracy	0.05%
Measuring Speed	Fast: 65, Medium: 10, Slow: 5 (meas/sec)
Equivalent Mode	Serial, Parallel
Ranging Mode	Auto, Hold
Trigger Mode	Internal, Manual, DUT, External, BUS
Correction Function	Open/Short/Load, Full frequency correction, 322 points frequency correction
Graphics scanning Function	Frequency, Level, Bias voltage/Current,
List sweep	10 points frequency, level, DC bias, DC source
Display type	480*272, 5-inch TFT LCD
Memory	100 groups and 500 groups(USB disk)

Test Signal

Test Frequency	50Hz - 100kHz, Resolution: 1mHz
Output Impedance	10Ω, 30Ω, 100Ω
Test Level	10mV - 2V, Resolution: 1mV
Internal DC Bias	0V/1.5V/2.0V/4.0V/5.0V

Measurement Display Range

Z , R, X	0.01mΩ - 99.9999MΩ
Y , G, B	0.0001uS - 999.999S
C	0.00001pF - 99.9999mF
L	0.00001μH - 99.9999kH
D	0.00001 - 9.99999
θ(Deg)	-179.9° - 179.9°
θ(Rad)	-3.14159 - 3.14159
Q	0.01 - 99999.9
Δ%	-999.99% - 999.99%

Comparator and Interface

Comparator	10 bins, BIN0 - BIN9, NG, AUX PASS/FAIL LED displayed
Interface	RS232C/USB-HOST/USB-CDC/USB-TMC/HANDLER/GPIB (Option) /SCANNER (Option)

Order Information

AD2817D Precision LCR meter

Instrument Accessories

AD26005	4 terminal test fixture
AD26011	4 terminal Kelvin test clip leads
AD26010	Gilded shorting plate