U2818/U2819 Precision LCR Meter

Features

- Four different parameters displayed simultaneously, flexible and comfortable combination
- AC and DC parameters can be measured simultaneously, without interference, self-degaussing
- High speed and efficiency measurement: the fastest 65 times / sec (including display)
- Built-in continuous DC bias:-5V +5V, support current mode
- Independent and Low-noise DC source: -10V +10V continuously adjustable, Resolution: 2.5mV
- Automatical DUT trigger function: Plug & Measure, results and discriminant single displayed
- Flexible limit comparator: tolerance mode, sequence mode and parameters exchange
- Multi-parameter comparison test function, quickly and easyly distinguish devices pass/fail
- 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 fuction: 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

• U2818 precision LCR meter is a new generation impedence test instrument with high-precision,wide measurement range and six digit resolution. U2818 can be used for incoming inspection of components, quality control of product line and laboratory use over a wide range of frequency(20Hz to 300kHz), test signal level(5mV to 2V), built-in DC bias(-5V to 5V) 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.

Specifications

Measurement Function				
Test Parameters	Z ,C,L,R, X, Y ,Β,G,D,Q,θ,DCR			
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 64 points frequency correction			
Graphics scanning Function	Frequency Level Bias voltage/Current DC Source			
List sweep	20 points frequency, level, DC bias, DC source			
Display type	480x272, 5-inch TFT LCD			
Memory	100 groups and 500 groups(USB disk)			
Test Signal				
Test Frequency	U2818	20Hz - 300kHz, Resolution: 1mHz		
	U2819	20Hz - 200kHz, Resolution: 1mHz		



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Output Imped	dance	10Ω, 30Ω, 100Ω		
Test Level		10mV - 2V, Resolution: 1mV 100uA - 100mA, Resolution: 1uA		
ALC Function	า	10mV — 1V		
Internal DC Bias	Voltage Mode	-5V — +5V,Resolution:1mV		
	Current Mode	-50mA — 50mA , Resolution:20uA		
Output DC S	ource	-10V — +10V, Resolution:2.5mV		
Measurement Display Range				
Z , R,X		0.01 m Ω — 99.9999Μ Ω		
Y , G, B		0.0001uS — 999.999S		
С		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%		
DCR		1mΩ — 99.9999MΩ		
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)		
General Spe	cification	S		
Temperature & Humidity		0°C — 40°C, ≤90%RH		
Power Volt	age	99V — 242V		
Supply Fre	quency	47.5Hz — 63Hz		
Power Consumption		≤60 VA		
Dimensions (W×H×D)		350mm×120mm×360mm		
Weight		Approx. 3.5kg		

Order Information

U2818/U2819 Precision LCR meter

Instrument Accesories

U26005 4 terminal test fixture
U26011 4 terminal Kelvin test clip leads
U26010 Gilded shorting plate

Options

U26006 Axial component test fixture U26008 SMD test fixture U26009 SMD Kelvin test tweezers 1A DC bias board U10501 U10503 DC source board, -10V - +10V U10301 **GPIB** interface U10601 SCNNER interface U10201 PC communication control software

