Component Parameter Test Instruments

A. TH2839 Series Impedance Analyzer

Features

- High accuracy:Auto-balance bridge technology, 4-terminal pair
- High stability and consistency:Up to 15 test ranges
- High speed:Up to 7.7ms
- High resolution:7- inch, 800×600
- 201 Points List Sweep Function
- Multi-parameter Graphic Sweep Function
- Varactor diode automatic polarity function
- 10 bins sorting, sorting result with sound and light alarm
- Storage space: Internal: 40 groups of setting files
  USB External: 500 groups of setting files, data log files and image files
- Simultaneous testing for Ls-R_{DC}
- High compatibility: Support SCPI commands, compatible with KEYSIGHT E4980A, E4980AL, HP4284A etc.

NEW

Standard	RS232	USB HOST	USB DEVICE	HANDLER	LAN
option	GPIB □	SCANNER □			

Dimension(mm): 400mm(W)x132mm(H)x425mm(D)
Weight: 15kg

Applications

- **Passive component**:

Impedance parameter estimation and performance analysis of capacitor, inductor, magnetic core, resistor, piezoelectric devices, transformers, chip components and network components

- **Semiconductor component**

Parasitic parameter test and analysis of LED driver integrated circuit
C-VDC features of varactors
Parasitic parameter analysis of transistors or integrated circuit

- **Other components**

Impedance assessment of printed circuit boards, relays, switches, cables, batteries

- **Dielectric material**

Dielectric constant and loss angle evaluation of plastics, ceramics and other materials

- **Magnetic materials**

Magnetic permeability and loss angle assessment of ferrite, amorphous body and other magnetic materials

- **Semiconductor materials**

Dielectric constant, electrical conductivity and C-V characteristics of semiconductor materials

- **Liquid crystal cell**

Dielectric constant, elastic constant and C-V characteristics of liquid crystal cell

Specifications

Model		TH2839	TH2839A
Display		7-inch TFT LCD display 800XRGBX600	
AC Test parameters		Cp/Cs、Lp/Ls、Rp/Rs、|Z|、|Y|、R、X、G、B、θ、D、Q、Vac、Iac	
DC Test parameters		Rdc、Vdc、Idc	
Test Frequency	Range	20Hz-10MHz	20Hz — 5MHz
	Highest resolution	1mHz	
Test level	AC voltage	20Hz — 2MHz：5mV — 2Vrms 2MHz — 10MHz：5mV — 1Vrms	20Hz — 2MHz：5mV — 2Vrms 2MHz — 5MHz：5mV — 1Vrms
	Resolution	100uV	
	AC current	20Hz — 2MHz： 50uA—20mArms 2MHz — 10MHz：50uA—10mArms	20Hz — 2MHz：50uA — 20mArms 2MHz — 5MHz：50uA — 10mArms
	Resolution	1uA	
	DC Voltage	100mV — 2V	
	Resolution	100uV	
DC bias	Voltage	0V — ± 40V	
	Resolution	100uV	
	Current	0mA — ± 100mA	
	Resolution	1uA	
DC voltage source	Voltage range	-10V — 10V	
	Current range	-45mA — +45mA	
	Output impedance	100Ω	
Test terminal configuration		Four-terminal pair	
Output impedance		100Ω	
Typical measurement time (speed)		Fast: 7.7ms/time Medium: 120ms/time Slow: 230ms/time	

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Model		TH2839	TH2839A
Highest accuracy		1kHz: 0.05% 1MHz: 0.05% 2MHz: 0.1% 5MHz: 0.5% 10MHz:1.0%	1kHz: 0.05% 1MHz: 0.05% 2MHz: 0.1% 5MHz: 0.5%
Cable length		0, 1, 2, 4 meters (4 meter cable is optional)	
Graph sweep	Parameters	FREQ, ACV, ACV/I, DCV/I, DC voltage source	
	Type	Logarithm, linearity	
	Sweep points	51, 101, 201, 401 or 801	
Equivalent circuit analysis		Purchase PC software	
Interface		USB HOST, USB DEVICE, LAN, HANDLER, RS232C, SCANNER, Temperature Input sensor Optional: GPIB	
Warm-up time		60 minutes	
Input voltage		Optional 100-120VAC/198-242VAC, 47-63Hz	
Power consumption		80VA	
Dimension(WxHxD)mm^3		400 x 132 x 425	
Weight		15kg	

Standard accessories

Three core power cord
TH26010 Gold-plated short circuit board
TH26005C Four-terminal test fixture