

TH2827 Series - Features and Benefits



CE

- 4.3-inch TFT LCD display
- Maximum test frequency of 1MHz, resolution of 10mHz
- Integrated transformer test function and balance test function
- Maximum test speed: 13ms/time
- Automatic level control (ALC) function for V and I
- Test signal level monitor function for V and I
- Included interior DC bias source
- External DC bias source of large current
- 10-point list sweep function
- Selectable internal resistance of 30Ω, 50Ω and 100Ω
- Internal file storage and external USB-disk for file storage directly
- RS232C, USB, LAN, HANDLER, GPIB, DCI interface

Specifications	Frequency of test signal	
	TH2827A	20Hz ~ 300kHz
	TH2827B	20Hz ~ 500kHz
	TH2827C	20Hz ~ 1MHz
	Minimum resolution	10mHz, 4-digit frequency input
	Accuracy	0.01%
	AC Level	
	Voltage range of test signal	10mV ~ 2Vrms
	Minimum resolution of voltage	100μV, 3-digit input
	Accuracy	ALC ON:10% x set voltage + 2mV; ALC OFF:6% x set voltage + 2mV
	Current range of test signal	100μA ~ 20mA
	Minimum resolution of current	1μA, 3-digit input
	Accuracy	ALC ON:10% x set current + 20μA; ALC OFF:6% x set voltage + 20μA
	DC bias voltage source	
	Voltage/Current range	0V ~ ±5V / 0mA~ ±50mA
	Resolution	0.5mV / 5μA
	Voltage accuracy	1% x set voltage + 5mV
	ISO ON	Be used for the bias test of inductance and transformer
	AC Source impedance	ISO ON:100Ω; ISO OFF:30Ω,50Ω,100Ω selectable
	DCR source impedance	30Ω,50Ω,100Ω selectable
	Test parameters of LCR	Z , Y , C, L, X, B, R, G, D, Q, θ, DCR, Vdc-Idc
	Parameter display of test page	One set of main/sub parameter, 10-point list sweep
	Test parameters of transformer	DCR1(primary, 2-terminal),DCR2(secondary, 2-terminal),M (mutual inductance), N, 1/N, Phase, Lk(leakage inductance),C(primary, secondary capacitance), balance test

Specifications	Basic accuracy	LCR test parameter	0.05%
		N	0.10%
		Calibration	Warm-up time ≥ 30 seconds;Environment temperature: 23±5°C; Signal voltage: 0.3Vrms-1Vrms;Zeroing: After OPEN or SHORT;Length of test cable: 0 m
	Measurement time (≥10 kHz)		Fast: 13 ms / time;Medium: 67 ms / time;Slow:187 ms / time; Plus the refresh time of display character
	Display range of LCR parameter	Z , R ,X,DCR	0.00001Ω ~ 99.9999MΩ
		Y ,G,B	0.00001μs ~ 99.9999s
		C	0.00001pF ~ 9.99999F
		L	0.00001μH ~ 99.9999kH
		D	0.00001 ~ 9.99999
		Q	0.00001 ~ 99999.9
		θ(DEG)	-179.999° ~ 179.999°
		θ(RAD)	-3.14159 ~ 3.14159
		Δ%	-999.999% ~ 999.999%
	Equivalent circuit		Serial, Parallel
	Range mode		Auto, Hold
	Trigger mode		Internal, Manual, External, Bus
	Average times		1-255
	Calibration function		Open,short calibration with full frequency or dot frequency,Load
	Math operation		Direct reading, ΔABS, Δ%
	Delay time setup		0-999, minimum resolution: 100us
	Comparator		10-bin sorting, BIN1-BIN9, NG,AUX;Bin counter;PASS/FAIL on front panel,LED indication
	List sweep		10 points list sweep;Each sweep point can be sorted separately;
			Frequency, AC voltage/current,internal/external bias voltage/current can be swept;
	Internal nonvolatile memory		100 sets of LCRZ setting files;201 times test results
	External USB memory		GIF files;LCRZ setting files;Test data can be stored via USB memory directly
	Interface	I/O interface	HANDLER on rear panel
		SCI	USB, RS232C
		PCI	GPIB (optional)
		NI	LAN
		Memory interface	USB HOST (front panel)
		Bias current source control interface DCI	External DC bias current source can be controlled by using DCI interface. The maximum bias current can reach 120A. Option. Only choose either DCI or GPIB
	General Spec.	Display	480*RGB*272 4.3-inch TFT LCD display
		Dimension(W*H*D)	280 mm * 88 mm * 370 mm(with no sheath);369 mm * 108 mm * 408 mm(with sheath)
		Weight	Approx. 5 kg