

Component Parameter Test Instruments

A. TH2822 Series Handheld LCR Meter

Specifications

Model	TH2822A	TH2822C	TH2822D	TH2822E
Function				
Test Parameter	Primary parameters: L / C / R / Z Secondary parameters: D / Q / R / θ / ESR		Primary parameters: L / C / R / Z / DCR Secondary parameters: D / Q / R / θ / ESR	
Equivalent Circuit	Series and Parallel			
Parameter and Equivalent Mode	Hold, Auto			
Ranging Mode	Auto			
Measurement Terminals	3-terminal, 5-terminal			
Measuring Speed	4meas/sec, 1.5meas/sec			
DCR Measuring Speed	-----		3meas/sec	
Calibration Function	Open, short			
Comparator Function	1%, 5%, 10%, 20%		1%, 5%, 10%, 20%	
Input fuse	0.1A / 250V			
Interface	Mini-USB (virtual serial port)			
Test signal				
Test Frequency	100Hz, 120Hz, 1kHz, 10kHz,	100Hz, 120Hz, 1kHz, 10kHz, 100kHz	100Hz, 120Hz, 1kHz, 10kHz,	100Hz, 120Hz, 1kHz, 10kHz, 100kHz
Test Level	0.6Vrms		0.3 Vrms, 0.6 Vrms, 1 Vrms	
Output Resistance	100 Ω			
Display				
Display	LCD Primary-Secondary dual display, with backlight (TH2822 not available)			
Reading	Max. Primary parameters: 40,000 digits, secondary parameters D/Q Minimum resolution: 0.0001			
Basic accuracy	0.25%		0.1%	
Measuring Range				
L	0.00 μ H - 1000.0H	0.000 μ H - 1000.0H	0.00 μ H - 1000.0H	0.000 μ H - 1000.0H
C	0.00pF - 20.000mF	0.000pF - 20.000mF	0.00pF - 20.000mF	0.000pF - 20.000mF
Z/R	0.0000 Ω - 10.000M Ω			
DCR	-----	-----	0.0000 Ω - 20.000M Ω	
ESR	0.0000 Ω - 999.9 Ω			
D	0.0000 - 9.999			
Q	0.0000 - 9999			
θ	0.00° - \pm 180.0°			
Power Requirements				
Battery model	TH2822 / A : IEC 6LR61, 9V alkaline battery TH2822C/D/E : LH-200H7C, 8.4V Ni-MH 200mAH rechargeable battery			
AC power adapter	Input: 220V/50Hz, Output: 12V-15V(100 Ω Load)			
Standby Currant	Max.2 μ A	18 μ A	11 μ A	
Battery life	16 hours (typical) , new alkaline battery, with backlight off			
Auto power off	5min, 15min, 30min, 60min, OFF available; Factory Default : 5min			
Low voltage indicator	When battery voltage drops below 6.8V, low voltage indicator turns on.			

Standard Accessories

MINI USB Communication cable
 TH26028 AC power adapter
 TH26004F Two-terminal Test Cable
 TH26010B Gilded shorting plate

TH26027AS 4 terminal Kelvin test cable(not included in TH2822)
 TH26029C SMD Kelvin test cable(not included in TH2822/A)
 8.4V Rechargeable battery(not included in TH2822/A)
 Alkaline battery(only for TH2822/A)