

# Component Parameter Test Instruments

## A. TH2638 / A / B / C Precision Capacitance Meter

### Features

- 4.3 inch TFT LCD display
- Selectable Chinese and English operation interface
- Max. test frequency: 1MHz
- Highest test speed: 2.3ms/time
- Basic test accuracy :  $\pm 0.07\%$
- Loss factor:  $\pm 0.0005$
- V, I test signal level monitor function
- Low impedance measurement, signal level compensation function
- Built-in 11-bin comparator
- Internal file storage and external U disk file storage
- Test data can be directly saved in U disk
- Screen shot can be saved in U disk
- Compatible with SCPI commands
- RS232C, USB CDC, LAN, HANDLER, GPIB interfaces
- Manipulator interface and scanner interface
- Contact inspection function
- Synchronizing signal source
- Offset function in 1MHz test frequency ( $\pm 1, \pm 2\%$ )



### TH2638/A

Rack mount (mm): 280(W) x 88(H) x 370(D)  
 Dimension (mm): 369(W) x 108(H) x 408(D)  
 Net weight: 5 kg

### Specifications

Model	TH2638	TH2638A	TH2638B	TH2638C
Test parameters	Cp-D, Cp-Q, Cp-Rp, Cp-G, Cs-D, Cs-Q, Cs-Rs	Cp-D, Cp-Q, Cp-Rp, Cp-G, Cs-D, Cs-Q, Cs-Rs, Cs-Rs-Ls	Cp-D, Cp-Q, Cp-Rp, Cp-G, Cs-D, Cs-Q, Cs-Rs	
Test signal				
Frequency	Permitted frequency	100Hz, 120Hz, 1kHz, 10kHz, 100kHz, 1MHz, 1MHz $\pm 1\%$ , 1MHz $\pm 2\%$	100Hz, 120Hz, 1kHz, 10kHz, 40kHz, 100kHz	100Hz, 120Hz, 1kHz, 10kHz
	Accuracy	$\pm 0.02\%$		
Level	Range	0.1V-1V		
	Resolution	0.01V		
	Accuracy	$\pm 5\%$		
Output mode		Continuous or synchronous		
Signal source delay	Range	0-1s		
	Resolution	0.1ms		
Signal level compensation	100/120Hz	220 $\mu$ F, 470 $\mu$ F, 1mF range		
	1kHz	22 $\mu$ F, 47 $\mu$ F, 100 $\mu$ F range		
Output impedance	100 Hz 120Hz	SLC OFF ( $\geq 220\mu$ F range)	1.5 $\Omega$	
		SLC ON ( $\geq 220\mu$ F range)	0.3 $\Omega$	
		2.2 $\mu$ F - 100 $\mu$ F range	0.3 $\Omega$	
	1kHz	10 nF - 1 $\mu$ F range	10 $\Omega$	
		SLC OFF ( $\geq 22\mu$ F range)	1.5 $\Omega$	
		SLC ON ( $\geq 22\mu$ F range)	0.3 $\Omega$	
10kHz/100kHz	10 $\Omega$			
1MHz	10 $\Omega$			