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Component  
Tester

# Precision Impedance Analyzer

6630 / 6632



LAN RS-232 Remote GPIB USB Host USB

## Key Feature

- Frequency range: DC, 10Hz-3/5/10/20/30MHz
- Basic accuracy up to  $\pm 0.08\%$
- Output resistance 25 $\Omega$ /100 $\Omega$ , switchable
- Support meter mode, list mode, sweep mode, and equivalent circuit analysis function
- Auto component classification: Comparator function and Handler BIN classification function
- Built-in DC bias voltage -12 to +12V (6632)
- PC connection data analysis software is available optionally
- Support USB, LAN, GPIB and RS-232 interfaces

## Accessory

### Standard

- Test Fixture (FX-000C19)
- Power Code
- User Manual CD

### Optional

- Kelvin Clip Leads with BNC Box (F423906A)
- BNC Test Leads (F663001A/B/C)
- Dielectric Material Test Fixture (FX-0000C7)
- Liquid Dielectric Material Test Fixture (FX-000C20)
- Magnetic Material Test Fixture (FX-0000C8)
- Test Fixture (FX-0000C9)
- Bottom Electrode SMD Test Fixture (FX-000C10)
- SMD Tweezers Test Leads (FX-000C11)
- SMD Test Fixture (FX-000C12)

### Display Range

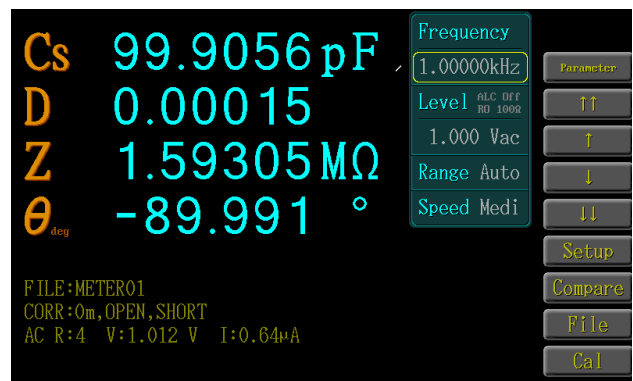
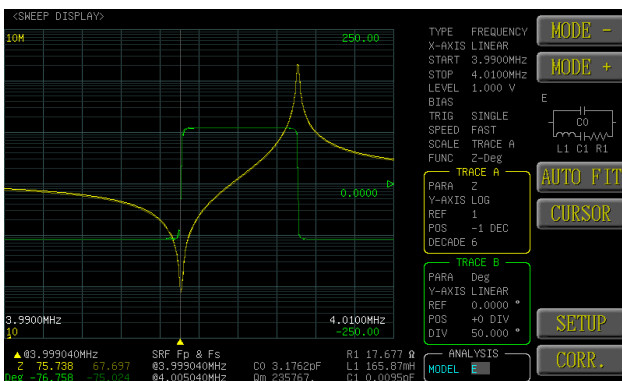
Z	0.000mΩ-9999.99MΩ	Cs, Cp	± 0.00000pF-9999.99F
R, X	± 0.000mΩ-9999.99MΩ	Ls, Lp	± 0.00nH-9999.99kH
Y	0.00000μS-999.999kS	D	± 0.00000-9999.99
G, B	± 0.00000μS-999.999kS	Q	± 0.00-9999.99
θ <sub>RAD</sub>	± 0.00000-3.14159	Δ	± 0.00%-9999.99%
θ <sub>DEG</sub>	± 0.000°-180.000°	Rdc	0.00mΩ-99.9999MΩ
εr' εr''	0-100000	μr' μr''	0-100000

### Applications

Passive Components	Capacitor, Inductor, Resistor, Transformer, Ceramic resonator, Quartz Crystal
Semiconductor Components	The CV characteristics analysis of varactor diodes, Diodes
Dielectric Material	Estimation on permittivity and consumption tangent of plastic, ceramic and PCB
Electromagnetic Material	
Other Components	Estimation of the impedance of PCB components

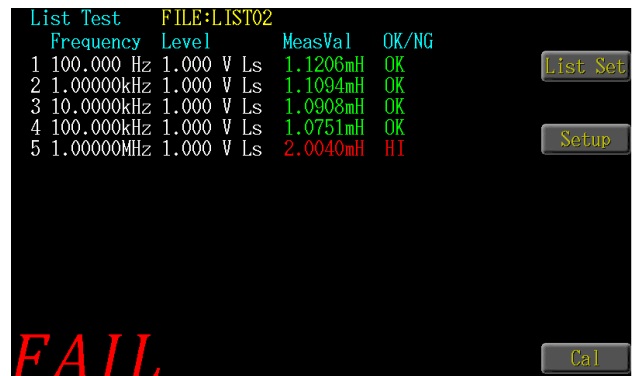
### Sweep Mode

Use sweep mode function to analyze component characteristic, the diagram of curves shows in the screen.



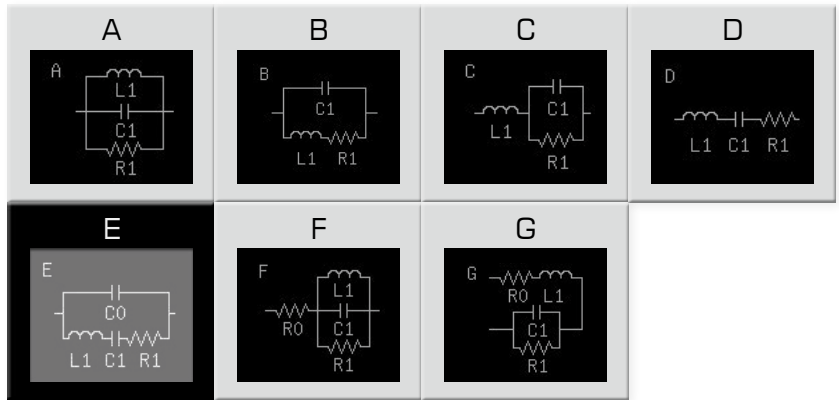
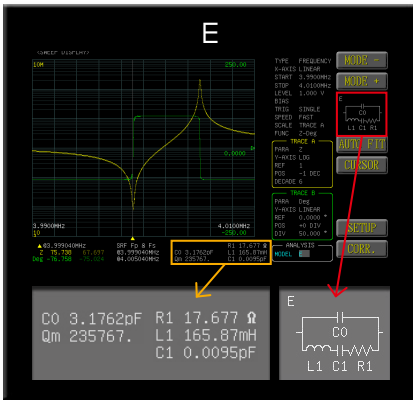
### List Mode

After setting, the screen will show each of parameter testing result (PASS/HI/LO), and can upload the data to computer.



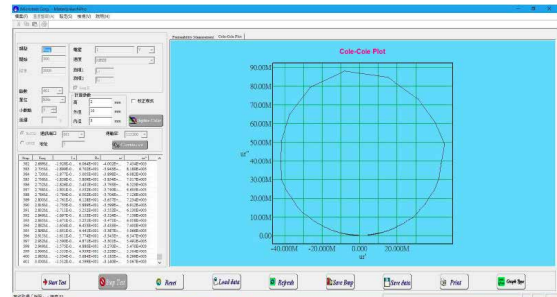
## Equivalent Circuit Analysis (Option)

It has seven different models, combine with different types of parameters ( R, L, C ), you can see three or four elements value, and self-resonant frequency (SRF)



## PC LINK Software

Connect RS-232/GPIB to analyze the test data and make CPK report.



## Choice Interface

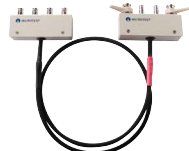
USB/LAN/GPIB/RS-232/Handler interface



## 6630/6632 Accessory/Fixture



F423906A



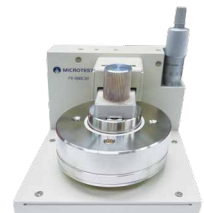
F663001A/B/C



FX-000C19



FX-000C7



FX-000C20



FX-000C8



FX-000C9



FX-000C10



FX-000C11



FX-000C12

Model Name & Test Frequency	6630-3, 6632-3G/3GS	10Hz-3MHz	
	6630-5, 6632-5G/5GS	10Hz-5MHz	
	6630-10, 6632-10G/10GS	10Hz-10MHz	
	6630-20, 6632-20G/20GS	10Hz-20MHz	
	6630-30, 6632-30G/30GS	10Hz-30MHz	
	Minimum Resolution	100mHz, 6 Digits	
	Accuracy	7ppm ± 100mHz	
Basic Accuracy	± 0.08%		
AC Drive Level	Signal Voltage Level	10mV-2Vrms	
	Voltage Resolution	1mV	
	Accuracy	ALC OFF: 10% * Voltage ±2mV ALC ON: 6% * Voltage ±2mV	
	Signal Current Level	200µA-20mArms	
	Current Resolution	10µA	
	Accuracyhh	ALC OFF: 10% * Current ± 20µA ALC ON: 6% * Current ± 20µA	
Test Speed (Max.)	< 3mS		
Output Impedance	25Ω / 100Ω (Selectable)		
Parameters	Z ,  Y , θ, X, R, G, B, L, D, Q, DCR, C, Vdc-Idc, ESR, εr, µr		
Measurement Mode	meter mode, list mode, sweep mode (G series), and equivalent circuit analysis function (GS series)		
Calibration	Open Circuit / Short Circuit / Load Calibration		
Equivalent Circuit	Series / Parallel		
Equivalent Circuit Analysis	Three elements, Four elements (option)		
Test Range	Automatic / Lock		
Mathematical Mode	Absolute / Percentage		
Multi-steps Mode	50 groups of Multi-steps setting (Each group contains up to 15 steps)		
Built-in DC bias voltage	-12 to +12V, 0.3% ±1.5mV, 100Hz to 30MHz (option)		
PC Link / CPK	Option		
Flash Memory	100 groups of LCR setting documents		
USB Host	LCR setting documents, BMP graphics, Test result data		
Interface	I/O Interface	Handler	
	Serial Interface	USB, RS-232, LAN, USB Host	
	Parallel Interface	GPIB	
Display	7.0" TFT, 800*480 Color Screen		
Environment	Temperature: 10 ~ 40°C, Humidity: ≤ 90%RH		
Power Supply	Voltage	90-264Vac	
	Frequency	47-63Hz	
Power Consumption	Maximum 30W		
Dimension (W*H*D)	336x147x340 mm (6630)	Weight	3 Kg (6630)
	359x147x343 mm (6632)		3.95 Kg (6632)