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Component
Tester

LCR Meter 6630E



Key Feature

Signal source frequency range: DC, 10Hz ~ 10MHz

Signal source grade: 10mV ~ 2V / 200μA ~ 20mA

Basic accuracy up to ±0.08%

ALC function

Output resistance 25Ω/100Ω, switchable

Ultra-high measuring speed <3mS

Open circuit/short circuit/load calibration function

Up to four component parameters can be selected in the electric meter mode. The induction and DCR values can be measured and displayed simultaneously

Auto component classification: Comparator function and Handler BIN classification function

Rapid automation and data access function is realizable for USB, GPIB and RS232 interfaces (LAN reserved)

PC connection data analysis software is available optionally

Ultra-low power consumption (<30W) without fans and zero noise

Measuring Range

IZI,	0.000 mΩ to 9999.99 MΩ
R, X	±0.000 mΩ to 9999.99 MΩ
Y	0.00000 uS to 999.999 kS
G, B	±0.00000 uS to 999.999 kS
θRAD	±0.00000 to 3.14159
θDEG	±0.000° to 180.000°

Cs, Cp	± 0.00000 - 9.99999
Ls, Lp	± 0.00 - 999999
D	± 0.000° - 180.000°
Q	± 0.000 % - 999.999 %
Δ	±0.00% to 9999.99%
Rdc	0.00 mΩ to 99.9999 MΩ

Operating Frequency	6630E-10	10Hz - 10MHz
	Resolution	100mHz, 6 Digits, $\pm 0.01\%$
	Accuracy	7 ppm $\pm$ 100mHz
Basic Accuracy	$\pm 0.08\%$	
AC Drive Level	Signal Voltage Level	10mV - 2Vrms
	Voltage Resolution	1mV
	Accuracy	ALC OFF : 10% * Voltage $\pm 2\text{mV}$ ALC ON : 6% * Voltage $\pm 2\text{mV}$
	Signal Current Level	200 μA - 20mA _{rms}
	Current Resolution	10 μA
	Accuracy	ALC OFF : 10% * Current $\pm 20\mu\text{A}$ ALC ON : 6% * Current $\pm 20\mu\text{A}$
Test Speed (Max.)	< 3mS	
Output Impedance	25 Ω / 100 Ω (selectable)	
Parameters	Z 、 Y 、 θ 、X、R、G、B、L、D、Q、DCR、C、Vdc-I _{dc} 、ESR	
Measurement Mode	Meter mode / Graphic mode / Multi-steps mode	
Calibration	Open Circuit / Short Circuit / Load Calibration	
ESR	Series/Parallel	
Test Range	Automatic/Lock	
Mathematical Mode	Absolute / Percentage	
Multi-steps Mode	50 groups of Multi-steps setting (Each group contains up to 15 steps)	
PC Link / CPK	Optional	
Flash Memory	100 groups of LCR setting documents	
USB	LCR setting documents、BMP graphics、Test result data	
Interface	I/O Interface	Handler
	Serial Interface	USB、RS232
	Parallel Interface	GPIO
Display	7.0"TFT, 800*480 Color Screen	
Environment	Temperature : 10 ~ 40°C / Humidity : $\leq 80\%RH$	
Power Supply	Voltage	90 ~ 264Vac
	Frequency	47 ~ 63Hz
Power Consumption	Maximum 30W	
Dimension (W*H*D)	336x147x340 mm	Weight 3 Kg