



MCR-9000

High Frequency LCR Meter

The MCR-9000 series precision LCR meter provide six frequency options (10 Hz to 1/3/5/10/20/30MHz), it is suitable for the LCR testes of AC signals. The measurement in a continuously changing environment can be executed stage-by-stage with the test frequency and grade, and high-speed continuous tests can be performed under different test and mode conditions.

Specification

Test Frequency	MCR-9005	10Hz ~ 5MHz	
	MCR-9010	10Hz ~ 10MHz	
	MCR-9020	10Hz ~ 20MHz	
	MCR-9030	10Hz ~ 30MHz	
	Minimum Resolution	100mHz, 6-bit Frequency Input	
	Accuracy	7 ppm±100mHz	
Basic Accuracy	± 0.05%		
AC Measurement	Test Signal Voltage Level	10mV - 2Vrms	
	Voltage Minimum Resolution	1mV	
	Accuracy	ALC ON : 6% * Voltage ± 2mV	
		ALC OFF : 10% * Voltage ± 2mV	
	Test Signal Current Level	200µA - 20mArms	
	Current Minimum Resolution	10µA	
	Accuracy	ALC ON : 6% * Current ± 20µA	
		ALC OFF : 10% * Current ± 20µA	
DC Measurement	1V (fixed)		
Test Time (The fastest)	< 3ms		

Output Impedance	25Ω/100Ω, switchable (Nominal value)	
Parameters	Z 、 Y 、θ、X、R、G、B、L、D、Q、DCR、C、Vdc-I dc、ESR、ε' ε"and μr' μr"	
Measurement Mode	Meter mode, list mode	
Measurement Circuit	Series/Parallel	
Correction	Open Circuit/ Short Circuit/Load correction	
List mode	50 groups of Multi-steps setting (Each group contains up to 15 steps)	
BIN	9	
Comparator	ABS、ΔABS、Δ%、OFF	
Built-in Storage	100 sets LCR Meter setting documents, 50 sets list mode setting documents	
USB Host Storage	LCR setting documents, list mode setting documents, BMP graphics	
Interface	RS-232、GPIB、Handler、LAN、USB Host/Device	
Power Supply	Voltage	90V ~ 264Vac
	Frequency	47Hz ~ 63Hz
Power Consumption	Low power consumption: Maximum 30W (Nominal value)	
Display	7.0" TFT, 800x480 color screen	

Environment	Temperature: 10°C ~ 40°C Humidity: ≤80%
Dimension (W*H*D)	336x147x340 mm
Weight	3 kg

Parameters Measurement Ranges

Z	0.000 mΩ - 9999.99 MΩ
R, X	± 0.000 mΩ - 9999.99 MΩ
Y	0.00000 uS - 999.999 kS
G, B	± 0.00000 uS - 999.999 kS
θRAD	± 0.00000 - 3.14159
θDEG	± 0.000° - 180.000°
Cs, Cp	± 0.00000 pF - 9999.99 F
Ls, Lp	± 0.00 nH - 9999.99 kH
D	0.00000 - 9999.99
Q	0.00 - 9999.99
Δ	± 0.00% - 9999.99%
Rdc	0.00 mΩ - 99.9999 MΩ
εr' εr''	0 - 100000
μr' μr'''	0 - 100000