Make ideas real



LCR METERS AND IMPEDANCE ANALYZERS

For your component manufacturing workflow



What makes them unique?

- ► Fast, accurate and versatile
- ► Upgradeable frequency range
- ► Measurement functions for all requirements
- ▶ DC bias options for voltage and current
- ► LCX features high-resolution touchscreen with versatile test fixtures
- ► MFIA LabOne® software provides UI, Toolset (Sweeper, Plotter, DAQ, Scope) with APIs for Python, MATLAB®, LabVIEW™ and .NFT

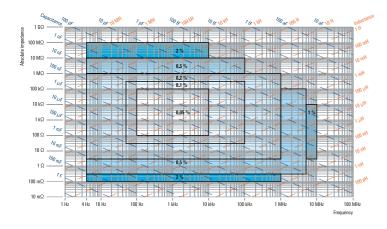
The perfect choice for	+ 5,5,5,5,5	0.0 0.0 0.0 0 0.		
R&S®LCX	MFIA	Key specifications	R&S®LCX	MFIA
Component production	Materials science	Test frequencies	DC, 4 Hz to 300 kHz (500 kHz, 1 MHz, 10 MHz)	1mHz to 500 kHz (5 MHz)
		Basic impedance measurement accuracy	±0.05 %	
Quality assurance R & D		Impedance measurement range	10 m Ω to 100 $M\Omega$	1 m Ω to 1 T Ω
	R & D	Measurement functions	Cp, Cs, Lp, Ls, D, Q, G, Rp, Rs, Rdc, R, X, Z, Y, Od, Or, B, M, N	Cp, Cs, Lp, Ls, D, Q, G, Rp, Rs, Rdc, R, X, Z, Y, Od, Or, B
		Test signal voltage	10 mV to 10 V	1 μV to 10 V

Your benefit	Features		
Versatile functionality, all frequently used measurements supported	 ► The R&S®LCX performs the full range of measurements required to characterize resistors, capacitors, inductors and transformers ► MFIA is a perfect choice for material research, semiconductor characterization, and bioimpedance spectroscopy 		
Advanced options and features	 ► The R&S®LCX offers extended bias (voltage and current), binning and dynamic impedance measurement functions ► The MFIA offers fastest impedance measurements at a fixed frequency, covers a wide impedance range, and allows for low frequency measurements down to 1 mHz 		
Easy to use	 Choose between modern and intuitive interfaces LCX offers a large high-contrast capacitive touchscreen MFIA LabOne® software provides UI, Toolset (Sweeper, Plotter, DAQ, Scope) with APIs for Python, MATLAB®, LabVIEW™ and .NET 		

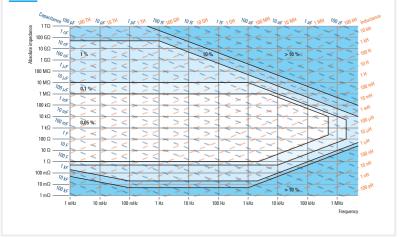


Reactance Charts - The LCR meters and impedance analyzers from Rohde & Schwarz combine high measurement speed with basic impedance measurement accuracy of 0.05%.

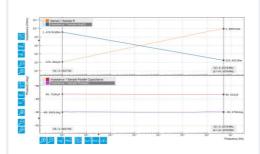
R&S[®]LCX200 at a source impedance of 100Ω



MFIA



Display and usability



MFIA comes with the LabOne® user interface and with the MFITF test fixture. LabOne® tool provides the graphical user interface to any web browser and records the variation of frequency, bias voltages, and test signal amplitudes.

Test fixtures for a wide range of applications



The LCX meters from Rohde & Schwarz can perform measurements on a wide range of components. Test fixtures are available that match the shape of the component.

Ordering information	R&S®LCX
Base model	
LCR meter, 300 kHz	R&S®LCX100
LCR meter, 500 kHz	R&S®LCX200
Options	
Advanced analysis functions For dynamic impedance measurements that sweep the frequency, voltage or current of the test signal or bias signal	R&S®LCX-K106
Digital I/O ports and binning function Includes trigger input and eight data lines for binning	R&S®LCX-K107
Extended bias functions External bias voltage of up to 40 V and internal bias source in current regulation mode of up to 200 mA	R&S®LCX-K108
Frequency upgrade to 1 MHz for R&S®LCX200	R&S®LCX-K201
Frequency upgrade to 10 MHz for R&S®LCX200	R&S®LCX-K210
IEEE-488 (GPIB) interface for R&S®NGP/LCX	R&S®NG-B105
Fixtures and system components	
Test fixture for axial/radial lead type devices	R&S®LCX-Z1
Kelvin clip lead	R&S®LCX-Z2
Test fixture for SMD components	R&S®LCX-Z3
Test tweezers for SMD components	R&S®LCX-Z4
Transformer test cables	R&S®LCX-Z5
BNC extension, length: 1 m	R&S®LCX-Z11
19" rack adapter, 2 HU	R&S®ZZA-GE23
MFITF Test fixture (included with MFIA)	MFITF

Ordering information	MFIA
Base Model	
Impedance Analyzer MFIA 500 kHz	MFIA
Options	
MF-F5M Frequency extension to 5 MHz	MF-F5M
MF-DIG Digitizer	MF-DIG
MF-MD Multi-demodulator	MF-MD