



R&S®LCX LCR METERS

The top class in component testing

The perfect choice for

Component R&D

Component production

Service and testing

Education



Key specifications	
Test frequencies	DC, 4 Hz to 300 kHz (500 kHz, 1 MHz, 10 MHz)
Basic measurement accuracy (impedance)	±0.05 %
Measurement functions	L, C, R, Z, X, Y, G, B, D, Q, θ , M, N, Rdc
DC bias voltage (internal)	0 V to +10 V
DC bias current (internal)	0 mA to 200 mA
External DC bias voltage, input	0 V to +40 V

What sets this LCR meter apart?

- ▶ Fast, accurate and versatile
- ▶ Upgradeable frequency range
- ▶ Test signals for all requirements
- ▶ DC bias
- ▶ Data logging function
- ▶ High-resolution touchscreen
- ▶ Versatile test fixtures

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 and inductors
DC measurements and test signal frequencies of up to 10 MHz	▶ The R&S®LCX100 LCR meter covers the frequency range from 4 Hz to 300 kHz ▶ The R&S®LCX200 has an upper frequency limit of 500 kHz and can be extended to 1 MHz or 10 MHz using software options if required
Easy to use	▶ Modern and intuitive operation thanks to a large capacitive touchscreen ▶ Frequently used functions are directly accessible via the front panel keys



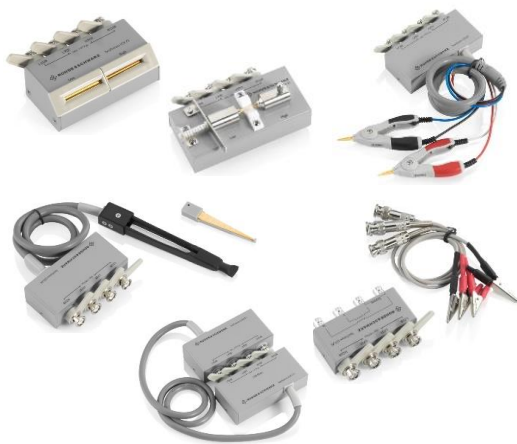
For more information, visit
www.rohde-schwarz.com/product/LCX

Display and usability



Up to four measurement parameters can be shown on the display at the same time with additional information

Test fixtures for a wide range of applications



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

List of measurement functions

Cp	Capacitance value measured with parallel equivalent circuit model
Cs	Capacitance value measured with series equivalent circuit model
Lp	Inductance value measured with parallel equivalent circuit model
Ls	Inductance value measured with series equivalent circuit model
D	Dissipation factor
Q	Quality factor (inverse of D)
G	Equivalent parallel conductance measured with parallel equivalent circuit model
Rp	Equivalent parallel resistance measured with parallel equivalent circuit model
Rs	Equivalent series resistance measured with series equivalent circuit model
Rdc	Direct current resistance
R	Resistance
X	Reactance
Z	Impedance
Y	Admittance
θd	Phase angle of impedance/admittance (degrees)
θr	Phase angle of impedance/admittance (radians)
B	Susceptance
M	Mutual inductance
N	Turns ratio

Options for advanced applications

R&S®LCX-K106 advanced analysis functions

- For dynamic impedance measurements that sweep the frequency, voltage or current of the test signal or bias signal

R&S®LCX-K107 digital I/O ports and binning function

- Includes trigger input and eight data lines for binning

R&S®LCX-K108 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-K201/-K210 frequency upgrade

- Upgrade to 1 MHz/10 MHz for the R&S®LCX200

Ordering information

Description	Item
LCR meter, 300 kHz, base unit	R&S®LCX100
LCR meter, 500 kHz, base unit	R&S®LCX200
Advanced analysis functions	R&S®LCX-K106
Digital I/O ports and binning function	R&S®LCX-K107
Extended bias functions	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
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



Rohde & Schwarz representative

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