ROHDE&SCHWARZ

Make ideas real

R&S®LCX100 versus Keysight E4980AL-032



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 wide test signal frequency range	 The R&S[®]LCX100 LCR meter covers the frequency range from 4 Hz to 300 kHz
Easy to use	 Modern and intuitive operation thanks to a large capacitive touchscreen Frequently used functions are directly accessible via the front panel keys

Parameter	R&S [®] LCX100	Keysight E4980AL-032		
Test signal frequency	DC, 4 Hz to 300 kHz	DC, 20 Hz to 300 kHz		
Test signal voltage (RMS)	10 mV to 10 V	0 V to 2 V		
Test signal current	1 mA to 200 mA	0 mA to 20 mA		
Bias voltage (internal)	0 V to 10 V	0 V/1.5 V/2 V		
Bias current (internal)	0 mA to 200 mA	not specified		
Ext. bias voltage input	0 V to 40 V	not available		
Source impedance	100 Ω, 10 Ω	100 Ω		
Measurement range	100 m Ω to 100 M Ω	$10~m\Omega$ to $100~M\Omega$		
Basic measurement accuracy (impedance)	±0.05 %	±0.05 %		
Open/short/load compensation	yes	yes		
Cable extension length	1 m	1 m/2 m/4 m		
Special functions	graphical chart/list sweep	list sweep		
Transformer measurements	4 Hz to 100 kHz	not available		
Remote control interfaces	USB, LAN, GPIB (option)	USB, LAN, GPIB		



Touchscreen functionality and display

High-resolution touchscreen with virtual menus and special functions

VicC FTP SOI CD 9 🐻 🖶 🗋 162531				
C _s : 144.04 nF	۵	2	3	
R _s : 37.577 mΩ	500.0 kHz			
Ζ : 2.210 2 Ω	Voltage	^{Level:} 1.20	V rms	
θ _d : -89.026 °	Range:	Auto	:3Ω	
Vm: 26.66 mV RMS Im: 12.39 mA RMS 6[2]: 1.260% 68: 0.730*	Voltage		00 V	

R&S[®]LCX100

- The capacitive touchscreen is the central operating element of the R&S[®]LCX100
- Virtual keyboards, menus and special functions accessed through icons provide a user-friendly experience



Keysight E4980AL-032

The Keysight E4980AL-032 LCR meter does not a touchscreen and is operated solely with keys



Graphical representation of measurements

R&S[®]LCX100

- The R&S®LCX100 has a large high-resolution screen that can display a wide variety of additional information such as settings and statistics.
- Measurements can be displayed as graphs; up to four measurement functions can be selected and plotted versus time. Minimum and maximum values can also be marked.

INDE SEQ D(-1) D(AZ) 138 FERGUE G, G, F, I D(-1) D(P) 101 1101, 14. 909, 444. F. 240205. D(P) 102 1102, 14. 909, 444. F. 240205. D(P) 102 1102, 24. 999, 444. F. 240205. D(P) 102 1102, 24. 999, 444. F. 240205. D(P) 103 1102, 44. 99, 444. F. 240205. D(P) 105 1105, 45. 999, 444. F. 240205. D(P) 105 1105, 45. 999, 444. F. 240205. D(P) 105 1105, 45. 999, 444. F. 240205. D(P) 106 1102, 49. 99, 444. F. 240205. D(P) 10115, 10. 99, 444. F. 240205. D(P) D(P) 10115, 10. 99, 444. F. 240205. D(P) D(P) D(P) 103 1102, 49. 94. F. 240205. D(P) D(P) D(P) D(P) D(P)

Keysight E4980AL-032

 The Keysight E4980AL series has a 320 × 240 pixel, RGB color LCD display without graphical functionality

External bias functions



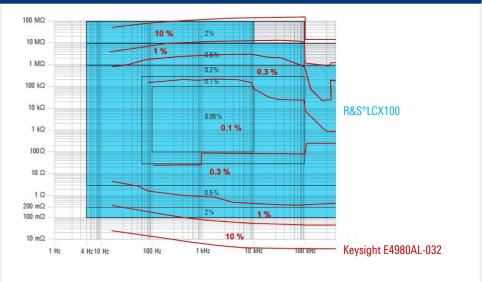
R&S®LCX100

- ► As standard, the R&S[®]LCX100 generates internal DC bias voltages of up to 10 V
- ► The R&S[®]LCX-K108 option extends the range of applications
- With the option, voltages of up to 40 V, e.g. from an external power supply unit, can be applied at the external bias ports on the rear of the LCR meter
- The option allows the internal bias source to be operated in current regulation mode with an adjustable current of up to 200 mA

Keysight E4980AL-032

No external bias function





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