

Keysight E4980AL Precision LCR Meter



An Industry Standard LCR Meter

Keysight E4980AL precision LCR meter is an industry standard of basic LCR meters which provides the best combination of accuracy, speed and versatility with the frequency selections. Along with the widest variety of accessories, a broad range of component and material measurement applications in general R&D and production environments can be addressed. Frequency upgrades are also

Key Features

1. Accurate measurements

Exceptionally low noise at both low and high impedance to improve test quality

- 0.05% basic impedance accuracy
- Open/Short/Load compensation
- Test cable extension (1/2/4 m)

2. Fast measurement speed

Fast speed with an affordable price contributes to reduce cost of tests

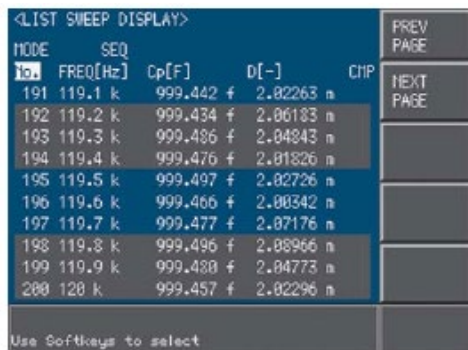
- 12 ms (SHORT), 118 ms (MED), 343 ms (LONG) @1 MHz

3. Measurement versatility

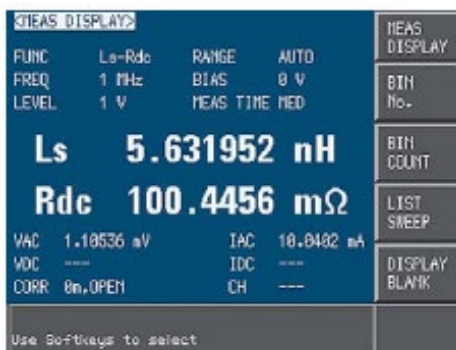
- 20 Hz to 300 kHz/500 kHz/1 MHz test frequency with 4-digit resolution
- 16 impedance parameters
- 100 uV to 2 Vrms, 1 uA to 20 mA variable test signal
- DC bias 1.5/2 V
- Auto-level control
- 201 points of programmable list sweep
- DC resistance

4. Upgradability

- 300 kHz to 500 kHz frequency upgrade
- 300 kHz to 1 MHz frequency upgrade
- 500 kHz to 1 MHz frequency upgrade



List sweep mode



DCR measurement



16047A test fixture



16047E test fixture



16034G SMD test fixture



16089B Kelvin clip lead



16334A tweezers

Learn more at: www.keysight.com

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Models

Model	Description
E4980AL	Precision LCR Meter, 20 Hz to 300 kHz/500 kHz/1 MHz

Options

Model	Description
E4980AL-032	20 Hz to 300 kHz with DCR Measurement
E4980AL-052	20 Hz to 500 kHz with DCR Measurement
E4980AL-102	20 Hz to 1 MHz with DCR Measurement
E4980AL-201	Handler interface
E4980AL-301	Scanner interface
E4980AL-ABA	English localization
E4980AL-ABJ	Japanese localization
E4980AL-1A7	ISO 17025 compliant calibration
E4980AL-A6J	ANSI Z540 compliant calibration
E4980AL-1CM	Rack mount kit

Upgrade options

Model	Description
E4980ALU-050 or 052	300 kHz to 500 kHz for E4980AL-032
E4980ALU-110 or 112	300 kHz to 1 MHz for E4980AL-032
E4980ALU-111 or 113	500 kHz to 1 MHz for E4980AL-052
E4980ALU-201 or 211	Add handler interface
E4980ALU-301 or 311	Add scanner interface

For more details on the option configuration and the upgrades, refer to the configuration guide 5989-8321EN.

Application support literatures

Literature	Part number
Impedance measurement handbook	5950-3000

Learn more at: www.keysight.com

Recommended accessories

DUT	Fixture type	Model	Description
Lead	Axial/radial	16047A/E	Spring contact type (A)/Screw-lock type (E)
	Clip-type	16089A/B/C (5 Hz to 100 kHz)	Large clips (A)/Medium clips (B)/IC clips (C)
SMD/chip	SMD/chip	16034E/G/H	Large contact (E)/Small contact (G)/For array components (H)
	Tweezers-type	16334A	Tweezers (cable length 1 m)
	Extension cable	16048A/D/E	BNC test leads (1/2/4 m)
	External DC bias	16065A/C	$\pm 200 V_{max}/\pm 40 V_{max}$

For other accessories, refer to the configuration guide 5989-8321EN.

Scanner interface

For additional literature and product information, refer to following literatures.

Literature	Part number
Brochure	5991-2305EN
Data sheet	5989-4435EN
Configuration guide	5989-8321EN

www.keysight.com/find/E4980AL

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