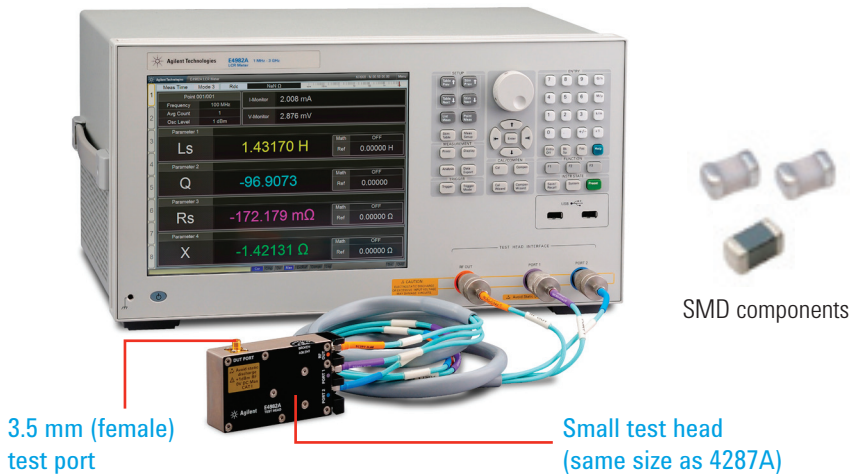


Agilent E4982A LCR Meter 1 MHz to 3 GHz

New Standard for High-Speed Component Tests

The Agilent E4982A LCR meter provides the best performance for the passive component manufacturing such as SMD inductors and EMI filters, where impedance testing at high frequencies is required. The E4982A is compatible to 4287A for Drop-in replacement.



Key Features

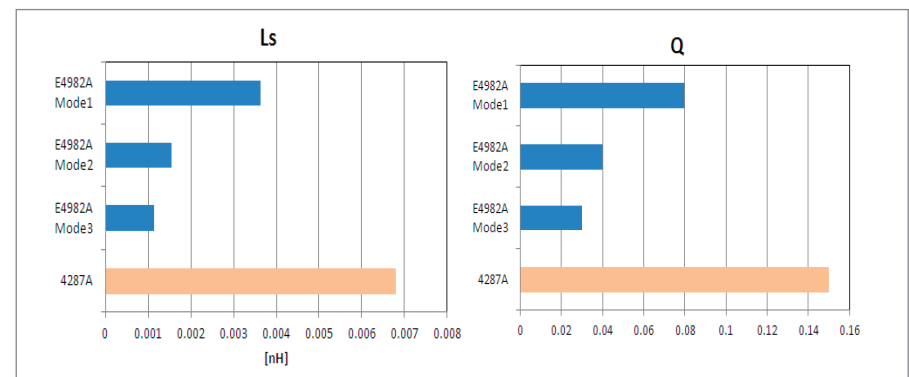
1. Unparalleled measurement speed & repeatability

- 0.9 msec (measurement time mode 1)
- 2.1 msec (measurement time mode 2)
- 3.7 msec (measurement time mode 3)
- Low variation for repeatability

2. Excellent accuracy & wide impedance range

- 11 parameters: $|Z|$, $|Y|$, L, C, R, X, G, B, D, Q, θ
- Measurement range from 0.14 Ω to 4.8 k Ω (within 10% accuracy)
- 0.8% basic accuracy
- Sophisticated calibration/compensation method with calibration wizard function

Measurement Variation Comparison



DUT: 10 nH (Q = 15)

Condition: 100 MHz, 0.5 V, AVG = 1 (3 sigma when 100 times measurements)

3. System Integration Capability with 4287A compatibility

- SCPI commands
- GPIB, LAN, USB, Handler interface
- Cable extension and small test head (the same size as the 4287A)
- Multi-function comparator
- Contact check using DCR measurement function

4. New Functions which are not in 4287A

- List measurement up to 201 points/table, Table & plot format
- User defined function keys/parameters
- Undo recall/preset
- Context sensitive embedded help



Agilent E4982A LCR Meter

Models

Model	Description
E4982A	LCR Meter, 1 MHz to 3 GHz

Options

Model	Description
E4982A-004	Working standard set
E4982A-020	Test fixture extension cable set
E4982A-700	16195B calibration kit
E4982A-710	Test fixture stand
E4982A-720	3.5 mm to 7 mm adapter
E4982A-810	Keyboard
E4982A-820	Mouse
E4982A-1A7	17025 compliant calibration
E4982A-A6J	ANSI Z540 compliant calibration

For more details on the option configuration, refer to the configuration guide 5990-9912EN.

Upgrade Options

For more details on the option configuration, refer to the configuration guide 5990-9912EN.

Application Support Literatures

Literature	Part Number
Impedance measurement handbook	5950-3000

Recommended service options

Additional two years of Return-to-Agilent warranty

Additional two years of Return-to-Agilent calibrations

For more information go to www.agilent.com/find/removealldoubt

Product specifications and descriptions in this document subject to change without notice.
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5991-0095EN

Recommended Accessories

DUT	Fixture Type	Model	Description
Lead	Axial/radial	16092A	≤ 500 MHz
		16094A	≤ 2 GHz, -55 to +200 °C
		16092A	≥ 1.6 × 0.8 (mm), ≤ 500 MHz
SMD/chip	SMD/chip	16192A	≥ 1.0 × 0.5 (mm), ≤ 2 GHz
		16196A/B/C/D	1608 (A), 1005 (B), 0603 (C), 0402 (D) in mm code, ≤ 3 GHz
		16194A	≤ 2 GHz, -55 to 200 °C
		16197A	≥ 0.6 × 0.3 (mm), ≤ 3 GHz
	External DC bias	16200B	0 to ± 40 V, ± 5 A, ≤ 1 GHz

For other accessories, refer to the configuration guide 5990-9912EN.

www.agilent.com/find/lcrmeters

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

Literature	Part Number
Brochure	5990-9911EN
Data Sheet	5990-9882EN
Configuration Guide	5990-9912EN

