# Product Fact Sheet Keysight E4982A LCR Meter 1 MHz to 300 MHz/500 MHz/1 GHz/3 GHz

Mode3

4287A

0

DUT: 10 nH (Q = 15)

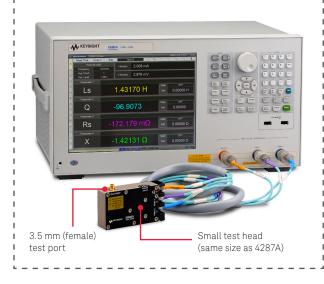
measurements)

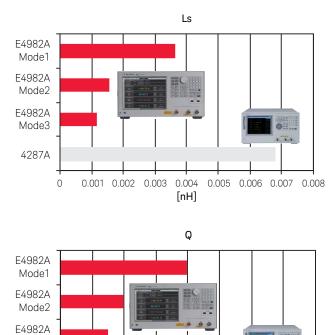
0.02

0.04

# New Standard for High-Speed Component Tests

The Keysight 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.





0.06

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

0.08

0.1

0.12

0.14 0.16

Measurement variation comparison

### Key features

Unparalleled measurement speed and 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

# Excellent accuracy and wide impedance range

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

# 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

### New functions which are not in 4287A

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



#### Main model options

Model	Description
E4982A	LCR meter
E4982A-030	1 MHz to 300 MHz
E4982A-050	1 MHz to 500 MHz
E4982A-100	1 MHz to 1 GHz
E4982A-300	1 MHz to 3 GHz

#### Other 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.

#### Application support literature

Literature	Part number
Impedance measurement handbook	5950-3000

### Upgrade options

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

#### www.keysight.com/find/lcrmeters

Please consult with your distributor for final pricing.

#### Recommended accessories

Fixture type	Model	Description
Axial/radial	16092A	≤ 500 MHz
	16094A	≤ 2 GHz, –55 to +200 °C
SMD/chip	16092A	≥ 1.6 × 0.8 (mm), ≤ 500 MHz
	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
	Axial/radial SMD/chip	Axial/radial 16092A   16094A 16092A   16092A 16192A   SMD/chip 16196A/B/C/D   16194A 16194A   16197A 16197A

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

# For additional literature and product information, refer to following literature

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

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