

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E4982A

Keysight Technologies E4982A is a high-frequency RF LCR meter designed for impedance measurements of components using a 1-port reflection method. It covers up to 3 GHz (frequency-option dependent) with a 50 Ω coaxial test port and supports standard R/L/C/D/Q and related impedance parameters with calibration via OSL.

SPECIFICATIONS

General

Interfaces	LAN, GPIB, USB
Display	Color LCD
Instrument class	RF LCR meter (high-frequency impedance meter)

Physical

Power Supply	100–240 Vac, 50/60 Hz (auto-ranging)
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Measurement Capabilities

Measurement method	1-port RF reflection (impedance from S11)
Test system impedance	50 Ω
Measurement parameters	R, L, C, Z, Y, D, Q, phase angle

Measurement Modes and Ranging

Equivalent circuit modes	Series and parallel
Trigger delay	Programmable

AC Test Signal

Frequency range	1 MHz – 3 GHz (frequency-option dependent)
Source output impedance	50 Ω

Correction and Calibration

Open/Short/Load correction (OSL)	Supported
Port extension / de-embedding	Supported
Fixture compensation	Supported
Cable length compensation	Supported

User Interface and Display

Save/recall states	Instrument state save/recall
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Connectivity and Interfaces

LAN interface	Ethernet remote control
GPIB interface	IEEE-488.2 compliant
External trigger	Trigger input and output
Digital I/O / handler	Handler interface for binning/sorting

Control and Programming

Remote programming	SCPI command set
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Ports, Terminals, and Fixtures

Measurement terminal type	1-port 7 mm coax (APC-7), front panel
Calibration plane	At instrument test port or fixture reference plane
Kelvin lead compatibility	Not applicable (coaxial 1-port method)

Options and Configurations

Frequency options	Up to 3 GHz by frequency option
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Physical Characteristics

Rackmount capability	Optional rack mount kit
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Compliance and Certifications

CE marking	CE compliant
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