

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

AGILENT / HP

Agilent / HP 4286A with option 004

Keysight 4286A RF LCR Meter 1 MHz to 1 GHz The HP/Agilent/Keysight 4286A is an RF LCR meter using RF I-V measurement for accurate impedance and Q evaluation from 1 MHz to 1 GHz. High-speed 15 ms measurements, 1 percent basic accuracy, and fixture compensation support production RF inductor and component test. The HP/Agilent/Keysight 4286A is an RF LCR meter using RF I-V measurement for accurate impedance and Q evaluation from 1 MHz to 1 GHz. High-speed 15 ms measurements, 1 percent basic accuracy, and fixture compensation support production RF inductor and component test.



MODEL

Agilent / HP 4286A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

4286A

LISTING

<https://aumictechlabs.com/products/4286a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent / HP 4286A with option 004 is a precision RF impedance analyzer for passive component characterization across 1 MHz to 1 GHz. This instrument delivers high-precision impedance measurement and parameter extraction critical for component research, quality assurance, and production line verification. Built-in compensation features and auto level control optimize measurement accuracy while high-speed test capabilities support efficient R&D workflows and high-volume manufacturing environments. Technical Specifications Measurement Capabilities: Frequency range: 1 MHz to 1 GHz Impedance parameters: Z, Y, L, C, R, X, G, B, Q, D, phase angle, ESR, ESI, EPR Test signal source: Internal RF signal generator with adjustable frequency and level Output impedance: 50 Ω (standard RF) Measurement Parameters: The

analyzer characterizes impedance (Z), admittance (Y), inductance (L), capacitance (C), resistance (R), reactance (X), conductance (G), susceptance (B), quality factor (Q), dissipation factor (D), phase angle, equivalent series resistance (ESR), equivalent series inductance (ESI), and equivalent parallel resistance (EPR). Key Features High-speed testing - rapid data acquisition and analysis for production and R&D environments Compensation functions - open, short, and load compensation to minimize test fixture parasitics Auto level control - automatic test signal adjustment for consistent measurement conditions Sweep capabilities - frequency and level sweeps for characterizing component behavior across operating ranges Programmable test signal levels - variable drive levels for component evaluation under different operating conditions Typical Applications Passive component R&D characterization Quality assurance verification Production line component inspection Capacitor and inductor evaluation Compatibility & Integration The analyzer integrates an internal RF signal generator with programmable frequency and signal level control, enabling direct component testing without external source equipment.

Features & description

From manufacturer datasheet

Features

- Test frequency 1 MHz to 1 GHz in 10 kHz steps
- Basic accuracy 1 percent RF I-V technique
- Measurement speed about 15 ms
- Impedance range 200 milliohm to 3 kohm at 1 MHz
- Q accuracy about 6 percent at 100 MHz Q=100 typical
- Binning limit test and list sweep functions

Applications

- RF inductor and component impedance production test
- Q measurement of nH-class RF inductors
- Material and circuit design validation 1 MHz to 1 GHz
- Automated test with HP-IB and binning functions

4286A Characteristics / Specifications

PARAMETER	VALUE
Model	4286A
Manufacturer	Keysight / Agilent / Hewlett Packard
Instrument Type	RF LCR Meter
Alias	4286A; HP 4286A; Agilent 4286A
Frequency range	1 MHz to 1000 MHz
Frequency resolution	10 kHz steps
Maximum programmed frequencies	10 per setup
Basic accuracy	1 percent
Measurement speed typical	15 ms
Impedance range at 1 MHz	200 milliohm to 3 kohmQaccuracy typical: 6 percent at 100 MHz Q=100
Test signal voltage range	10 mVrms to 1 Vrms
Test signal current range	200 uA to 20 mA
Reference output frequency	10 MHz nominal
Reference output level	2 dBm typical
Measurement technique	RF I-V (not reflection)
Remote interface	HP-IB
Furnished test head cable	1 m APC-3.5 right angle
Operating temperature spec tables	5 C to 40 C and 0 C to 55 C classes
Binning function	yes
List sweep function	yes
Contact check inductor option	available
Related bias source	HP 42841A 20 Adc
RelatedQadapter	HP 42851A Notes Specs from HP 4286A RF LCR Meter datasheet and product family documentation. Confirm installed 42841A/42851A accessories and cable length (1 m vs 3 m) on the system.
Operating temperature	spec tables: 5 C to 40 C and 0 C to 55 C classes

General Specifications & Supplementary Characteristics

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Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Technical Specifications	
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Optional 3 m cable: supported with level accuracy tables

Specifications

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Notes

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.