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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

HP / AGILENT

HP / Agilent 4275A LCR METER

HP / Agilent 4275A Multi-Frequency LCR Meter The 4275A is a multi-frequency LCR meter covering 10 kHz to 10 MHz with 10 spot frequencies in a 1-2-4-10 sequence (plus optional spots). With the 4274A it forms a precision LCR system from 100 Hz to 10 MHz at 0.1% basic accuracy. Test level is continuously variable from 1 mV to 1 Vrms. The 4275A is a multi-frequency LCR meter covering 10 kHz to 10 MHz with 10 spot frequencies in a 1-2-4-10 sequence (plus optional spots). With the 4274A it forms a precision LCR system from 100 Hz to 10 MHz at 0.1% basic accuracy. Test level is continuously variable from 1 mV to 1 Vrms.



MODEL

HP / Agilent 4275A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

4275A

LISTING

<https://aumictechlabs.com/products/4275a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 4275A is a precision microprocessor-based LCR meter for accurate impedance characterization across 10 kHz to 10 MHz. It measures inductance, capacitance, resistance, impedance, dissipation factor, quality factor, ESR, conductance, susceptance, reactance, and phase angle with 0.1% basic accuracy and 5½ digit resolution. The instrument supports auto, series, and parallel measurement modes with continuously variable test signal levels from 1 mVrms to 1 Vrms. Typical measurement time is 140–180 ms above 1 kHz. A four-terminal pair configuration with guard terminal minimizes lead and fixture effects. Automatic zero-offset capability compensates for residual impedance. Deviation measurement displays absolute or percentage difference from stored reference values. Technical Specifications Measurement

Parameters: L, C, R, $|Z|$, D, Q, ESR, G, X, B, and phase angle Frequency Range: 10 kHz to 10 MHz with 10 or 12 selectable spot frequencies in 1-2-4-10 sequence. Optional frequencies: 455 kHz and 10.7 MHz Test Signal Level: 1 mVrms to 1 Vrms continuously variable across 3 ranges Basic Accuracy: 0.1% Resolution: 5½ digits for primary parameters; 0.00001 for dissipation factor (D) Measurement Modes: Auto, Series, Parallel with supported parameter combinations Range Modes: Auto and manual Measurement Speed: 140–180 ms typical above 1 kHz; high resolution mode extends time Inductance (L): 100 nH to 10 H Capacitance (C): 1 pF to 100 µF Resistance (R), $|Z|$, ESR, Reactance (X): 1 Ω to 10 MΩ Conductance (G), Susceptance (B): 1 µS to 10 S Dissipation Factor (D): 0.00001 to 9.9999 Quality Factor (Q): 0.01 to 9900 Phase Angle: 0 to ±180°Key Features Four-terminal pair configuration with guard terminal for enhanced accuracy Automatic zero-offset to eliminate test lead and fixture residuals Deviation measurement capability (absolute and percentage modes) DC bias options: 0 to ±35 V (Option 001, 1 mV resolution) or 0 to ±99.9 V (Option 002, 100 mV resolution) External bias support up to ±200 V Compatible with HP 16047A Direct Coupled Test Fixture Compatibility & Integration HP-IB (IEEE-488) standard interface enables integration into automated test systems and remote control via HP-IB or optional 16023B Bias Controller.

Features & description

From manufacturer datasheet

Features

- Ten spot frequencies from 10 kHz to 10 MHz
- Continuously variable test level 1 mV to 1 Vrms
- 5.5-digit high-resolution measurements
- Optional internal DC bias supplies
- Test signal level monitor standard

Applications

- High-frequency component characterization to 10 MHz
- Production and QA impedance measurements
- Research and circuit-design L/C/R evaluation
- Paired use with 4274A for 100 Hz to 10 MHz coverage

4275A Characteristics / Specifications

PARAMETER	VALUE
Model	4275A
Manufacturer	HP / Agilent
Instrument Type	Multi-Frequency LCR Meter
Alias	4275A; Agilent 4275A; HP 4275A
Frequency range	10 kHz to 10 MHz
Spot frequencies	10, 20, 40, 100, 200, 400 kHz, 1, 2, 4, 10 MHz (+/-0.01%)
Test signal level	1 mVrms to 1 Vrms (3 ranges, continuously variable)
Basic accuracy	0.1%
Display resolution class	5.5 digit; D to 0.00001
Parameters	L, C, R, D, Q, ESR, G, B, X, Z , phase
Power class	100/120/220/240 V; about 135 VA max (family literature)
Operating temperature	0 to 55 C Notes Specs from HP 4274A/4275A datasheet literature. Confirm installed bias options and any special frequency options.

4275A Specifications

PARAMETER	VALUE
Applications	- High-frequency component characterization to 10 MHz
Key Features	- Ten spot frequencies from 10 kHz to 10 MHz
Technical Specifications	Model: 4275A
Notes	Specs from HP 4274A/4275A datasheet literature. Confirm installed bias options and any special frequency options.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C
Operating Temperature	0 to 55 C

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

Specifications

PARAMETER	VALUE
Model	4275A
Manufacturer	HP / Agilent
Instrument Type	Multi-Frequency LCR Meter
Alias	4275A; Agilent 4275A; HP 4275A

Specifications

PARAMETER	VALUE
Frequency range	10 kHz to 10 MHz
Spot frequencies	10, 20, 40, 100, 200, 400 kHz, 1, 2, 4, 10 MHz (+/-0.01%)
Test signal level	1 mVrms to 1 Vrms (3 ranges, continuously variable)
Basic accuracy	0.1%
Display resolution class	5.5 digit; D to 0.00001
Parameters	L, C, R, D, Q, ESR, G, B, X, Z , phase

Option 001: 0 to +/-35 V internal DC bias

Option 002: 0 to +/-99.9 V internal DC bias, 0.1 V steps

Power class: 100/120/220/240 V; about 135 VA max (family literature)

Operating temperature: 0 to 55 C

Notes

Specs from HP 4274A/4275A datasheet literature. Confirm installed bias options and any special frequency options.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.