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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 4268A

Constant Level 1 KHz: 1 Vrms up to 70 uF (IEC 384-10) Alternate 1 KHz Level: 0.5 Vrms up to 140 uF (RF Globalnet HP 4268A listing) Constant Level 120 Hz: 1 Vrms up to 600 uF Measurement Time: 25 ms including comparator Alternate 1 KHz Level: 0.5 Vrms up to 140 uF (RF Globalnet HP 4268A listing) Constant Level 120 Hz: 1 Vrms up to 600 uF Measurement Time: 25 ms including comparator Dut Class: high-value MLCC 10 uF to 100 uF class designs



MODEL

**Agilent / Keysight
4268A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

4268A

LISTING

[https://aumictechlabs.c
om/products/4268a-2/](https://aumictechlabs.com/products/4268a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 4268A is a benchtop capacitance meter delivering high-speed, precision measurements of capacitance, dissipation factor, quality factor, and equivalent resistance parameters. Engineered for production and laboratory environments, it supports dual test frequencies (120 Hz and 1 kHz) with selectable signal levels from 0.1 V to 1.0 V $\pm 10\%$ accuracy. The instrument excels at characterizing multi-layer ceramic capacitors (MLCCs) under constant test signal conditions, complying with IEC 384-10 standards. High-speed measurements complete in 25 ms, enabling rapid throughput in quality control workflows. Technical Specifications

Measurement Parameters: Capacitance (Cs, Cp) Dissipation Factor (D) Quality Factor (Q) Equivalent Series Resistance (Rs) Equivalent Parallel Resistance (Rp) Equivalent Parallel Conductance (G) Frequencies & Signal Levels: 120 Hz $\pm 1\%$ and 1 kHz $\pm 0.05\%$ Selectable signal levels: 0.1 V to 1.0 V in 0.01 V increments Output modes: Continuous and Synchronous Source

delay: 0 to 1.000 s (1 ms resolution) Measurement Ranges: 120 Hz: 1 nF to 1 mF (seven ranges) 1 kHz: 1 nF to 100 μ F (six ranges) MLCC capability: 70 μ F at 1 Vrms (1 kHz); 600 μ F at 1 Vrms (120 Hz) Measurement Speed: High-speed mode: 25 ms per measurement Selectable timing: Short, Medium, Long Averaging: 1 to 256 repetitions Display Ranges: Cs/Cp: 0.0001 nF to 9.9999 mF D: 0.0001 to 9.9999 Q: 0.1 to 9999.9 Rs/Rp: 0.01 m Ω to 999.99 M Ω G: 0.0001 μ S to 9.9999 kS Key Features Nine-bin comparator function for component sorting and classification Contact check ensures reliable measurement integrity Auto Level Control (ALC) with selectable measurement ranges (Auto/Hold) Trigger modes: Internal, Manual, External, Bus Trigger delay: 0 to 1.000 s (1 ms resolution) Measurement cable lengths: 0 m, 1 m, 2 m (dc cable resistance $\leq 0.3 \Omega$ per conductor) Typical Applications MLCC characterization and acceptance testing Production line quality control Component evaluation and sorting Circuit design validation Compatibility & Integration GPIB interface for test automation Handler interface support for production integration

4268A Characteristics / Specifications

PARAMETER	VALUE
Model	4268A
Instrument Type	Capacitance meter
Test Frequencies	120 Hz and 1 kHz
Display Digits	5
Highest Range	1 mF
Constant Level 1 KHz	1 Vrms up to 70 uF (IEC 384-10)
Alternate 1 KHz Level	0.5 Vrms up to 140 uF (RF Globalnet HP 4268A listing)
Constant Level 120 Hz	1 Vrms up to 600 uF
Measurement Time	25 ms including comparator
Comparator Bins	9
Contact Check	quick contact check
Dut Class	high-value MLCC 10 uF to 100 uF class designs
Alc Function	automatic level control to the DUT
Remote Control	GPIB class production meter
Handler Interface	comparator outputs for handlers
Form Factor	benchtop productionCmeter
Manufacturer	HP Agilent Keysight
Use Case	MLCC incoming and production test
Operating Temperature Class	production-floorCmeter window
Primary Power Class	mains powered benchtop
Literature	4268A 120 Hz/1 kHz Capacitance Meter operation manual
Related Standard	IEC 384-10 constant-voltageCtest
Measurement Parameters	C withDor comparator bin
Throughput	measured value plus bin within 25 ms
Operating temperature	Class: production-floorCmeter window

4268A Specifications

PARAMETER	VALUE
HP Agilent 4268A 120 Hz / 1 kHz Capacitance Meter	Overview
Applications	MLCC production test at 120 Hz and 1 kHz with constant 1 Vrms stress and handler binning.
Quick contact check	120 Hz and 1 kHz fixed frequencies
Technical Specifications	Model: 4268A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: production-floorCmeter window
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Operating Temperature Class	production-floorCmeter window
Primary Power Class	mains powered benchtop
Literature	4268A 120 Hz/1 kHz Capacitance Meter operation manual
Related Standard	IEC 384-10 constant-voltageCtest
Measurement Parameters	C withDor comparator bin
Throughput	measured value plus bin within 25 ms Notes From HP/Agilent 4268A capacitance-meter product literature and the 4268A 120 Hz/1 kHz operation manual. Basic accuracy contours versus C, frequency, and level are in the accuracy tables of that manual; they are not copied here as a single number.

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	
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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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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.