

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 8, 2026

AGILENT

HP / Agilent 4193A IMPEDANCE METER

The HP / Agilent 4193A is a vector impedance meter that measures impedance magnitude and phase from 400 kHz to 110 MHz. An internal oscillator provides constant-current test signals (10 μ A to 100 μ A class depending on Zrange). Magnitude range spans 10 m Ω to 120 k Ω with phase from -180° to $+180^\circ$. Spot and swept (linear or logarithmic) frequency modes support in-circuit and out-of-circuit component characterization via HP-IB and analog outputs. RF component impedance vs frequency; ceramic resonator series-resonance identification; in-circuit probing; production adjustment with 3.5-digit resolution; network and filter characterization to 110 MHz. Manufacturer: Hewlett-Packard / Agilent / Keysight Alias: HP 4193A; Agilent 4193A; 4193A Impedance Meter 400 kHz–110 MHz; $|Z|$ 10 m Ω –120 k Ω ; phase $\pm 180^\circ$ Prefer Keysight/HP 4193A Operation and Service Manual (04193-90000). Confirm probe/fixtures and EXT OSC connections for critical measurements.

No photo

MODEL

Agilent 4193A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

4193A

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- Frequency: 400 kHz to 110.0 MHz • Frequency resolution: 1 kHz (spot); external synthesizer via EXT OSC for finer resolution • Sweep: linear over any portion; logarithmic over full 400 kHz–110 MHz • Impedance magnitude: 10 m Ω to 120 k Ω • Phase: -180.0° to $+180.0^\circ$ • Accuracy: as good as 3.0% of reading (magnitude) and 3.2° (phase) • Test signal: constant current 10–100 μ A class byZrange • Display: 3.5-digit; auto/hold/manual ranging • Interfaces: HP-IB (GPIB); analog recorder outputs • Fixtures: L-ground probe; 16099A adapter and associated fixtures

4193A Characteristics / Specifications

PARAMETER	VALUE
Model	4193A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Vector Impedance Meter
Family	HP Impedance Analyzers
Alias	HP 4193A; Agilent 4193A; 4193A Impedance Meter RF / Impedance 400 kHz–110 MHz; $ Z $ 10 m Ω –120 k Ω ; phase $\pm 180^\circ$ Operational Notes Prefer Keysight/HP 4193A Operation and Service Manual (04193-90000). Confirm probe/fixture and EXT OSC connections for critical measurements.
Frequency	400 kHz to 110.0 MHz
Frequency resolution	1 kHz (spot); external synthesizer via EXT OSC for finer resolution
Sweep	linear over any portion; logarithmic over full 400 kHz–110 MHz
Impedance magnitude	10 m Ω to 120 k Ω
Phase	-180.0° to $+180.0^\circ$
Accuracy	as good as 3.0% of reading (magnitude) and 3.2° (phase)
Test signal	constant current 10–100 μ A class by Zrange
Display	3.5-digit; auto/hold/manual ranging
Interfaces	HP-IB (GPIB); analog recorder outputs
Fixtures	L-ground probe; 16099A adapter and associated fixtures

4193A Specifications

PARAMETER	VALUE
HP / Agilent 4193A IMPEDANCE METER	Overview
Key Features	- Frequency: 400 kHz to 110.0 MHz
Technical Specifications	Model: 4193A
RF / Impedance	400 kHz–110 MHz; $ Z $ 10 m Ω –120 k Ω ; phase $\pm 180^\circ$

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	4193A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Vector Impedance Meter
Family	HP Impedance Analyzers
Alias	HP 4193A; Agilent 4193A; 4193A Impedance Meter

RF / Impedance

400 kHz–110 MHz; |Z| 10 mΩ–120 kΩ; phase ±180°

Operational Notes

Prefer Keysight/HP 4193A Operation and Service Manual (04193-90000). Confirm probe/fixture and EXT OSC connections for critical measurements.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 8, 2026

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