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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 41941A

Ate Class: component and oscillator impedance Connector Class: 4194A probe interface plus probe tip System Role: extend 4194A impedance toagrounded probe tip From HP 4194A / 41941A/B datasheet coverage (5952-7802 class). Oscillator-level ceilings differ between the 50 Ohm and 75 Ohm 4194A systems; both are listed. Do not assign 41941B 3 m length to this 41941A SKU. Connector Class: 4194A probe interface plus probe tip System Role: extend 4194A impedance toagrounded probe tip From HP 4194A / 41941A/B datasheet coverage (5952-7802 class). Oscillator-level ceilings differ between the 50 Ohm and 75 Ohm 4194A systems; both are listed. Do not assign 41941B 3 m length to this 41941A SKU.



MODEL

**Agilent / Keysight
41941A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

41941A

LISTING

[https://aumictechlabs.c
om/products/41941a-2/](https://aumictechlabs.com/products/41941a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 41941A is an impedance probe kit that extends the measurement capabilities of the 4194A Impedance/Gain-Phase Analyzer. It enables in-circuit impedance characterization of components, printed circuit patterns, and circuit input/output impedance across a broad frequency range. The kit supports DC biased measurements for evaluating DC parameters in inductors, capacitors, semiconductors, and materials, making it essential for component and circuit characterization in development and production environments. Technical Specifications Frequency Range: 10 kHz to 100 MHz (when used with 4194A) Impedance Measurement Range: 0.1 Ω to 1 M Ω Measurement Accuracy: 1.5% to 3%; calibration accuracy guaranteed to probe tips

DC Bias Capabilities: External DC Bias: ± 150 Vdc, ± 0.5 A Internal DC Bias (4194A): ± 40 V for swept bias measurements Maximum combined AC + DC voltage: ± 40 V peak DUT power consumption limit: 25 W maximum with external bias Test Cable Length: 1.5 m (3-meter version 41941B available)Key Features Probe tip calibration standards included with automatic calibration function to eliminate residual impedance and stray admittance errors Multiple probe adapters: 3.5-mm short, 3.5-mm 50 Ω load, pin probe for in-situ measurements, ground lead, and BNC adapter Calibration accuracy guaranteed to probe tips for reliable in-circuit measurementsTypical Applications Component-level impedance measurements on PCBs DC parameter characterization of reactive components under bias Input/output impedance evaluation of active circuits Material and semiconductor impedance assessmentCompatibility & Integration The 41941A is compatible exclusively with the Agilent/Keysight 4194A Impedance/Gain-Phase Analyzer. Requires 4194A ROM version 2.2 or greater; not compatible with ROM version 2.1 and below.

41941A Characteristics / Specifications

PARAMETER	VALUE
Model	41941A
Instrument Type	impedance probe kit
Manufacturer	Hewlett Packard / Agilent
Literature	HP 4194A impedance/gain-phase analyzer datasheet 5952-7802 class with 41941A/B
Host Analyzer	HP 4194A impedance/gain-phase analyzer
Frequency Range	10 kHz to 100 MHz
Frequency Resolution	1 mHz
Measurement Range	100 mOhm to 1 MOhm
Accuracy Above 100 kHz	plus or minus 1.5 percent to 3 percent (at or above 100 kHz)
Accuracy Below 100 kHz	plus or minus 3 percent to 6 percent (below 100 kHz)
Cable Length	1.5 m (41941A); sibling 41941B is 3 m
Osc Level 50 Ohm	10 mV to 1.28 V rms on the 50 Ohm 4194A system
Osc Level 75 Ohm	10 mV to 1.54 V rms on the 75 Ohm 4194A system
Dc Bias Internal	plus or minus 40 V, plus or minus 20 mA
Dc Bias External	plus or minus 150 V, plus or minus 500 mA, 25 W maximum
AnalyzerZWithout Probe	100 Hz to 40 MHz impedance on 4194A without the 41941A/B probe
Analyzer Gain Phase	10 Hz to 100 MHz gain-phase on the 4194A
Brand Lineage	HP / Agilent / Keysight
Form Factor	1.5 m grounded impedance probe kit
Sibling	41941B 3 m impedance probe kit
Ate Class	component and oscillator impedance
Connector Class	4194A probe interface plus probe tip
System Role	extend 4194A impedance toagrounded probe tip

41941A Specifications

PARAMETER	VALUE
Agilent 41941A Impedance Probe Kit 1.5 m	Overview
Key Features	1.5 m impedance probe kit for HP 4194A
Calibration referenced to the 41941A probe tip	Sibling 41941B is the 3 m kit
Technical Specifications	Model: 41941A

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

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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.