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Data Sheet

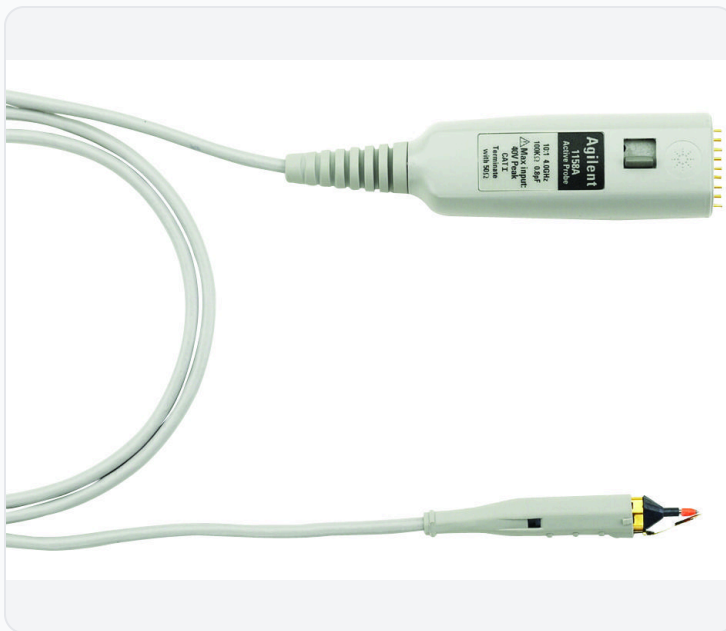
August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 1158A

Agilent Keysight 1158A InfiniiMax Probe Amplifier 4 GHz The Agilent/Keysight 1158A is an InfiniiMax probe amplifier. OEM Infiniium probe compatibility tables list 1158A among 1156A-1158A amplifiers used with InfiniiMax heads. Electrical loading follows the InfiniiMax table: 50 kohm differential / 25 kohm single-ended, 0.1 pF Cm, plus or minus 2.5 V dynamic range, AutoProbe interface. Bandwidth is 4 GHz. High-speed differential or single-ended probing on Infiniium oscilloscopes. InfiniiMax solder-in browser and socketed heads The Agilent/Keysight 1158A is an InfiniiMax probe amplifier. OEM Infiniium probe compatibility tables list 1158A among 1156A-1158A amplifiers used with InfiniiMax heads. Electrical loading follows the InfiniiMax table: 50 kohm differential / 25 kohm single-ended, 0.1 pF Cm, plus or minus 2.5 V dynamic range, AutoProbe interface. Bandwidth is 4 GHz. High-speed differential or single-ended probing on Infiniium oscilloscopes. InfiniiMax solder-in browser and socketed heads

Instrument Type: InfiniiMax probe amplifier



MODEL

**Agilent / Keysight
1158A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1158A

LISTING

<https://aumictechlabs.com/products/1158a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 1158A is a 4 GHz active probe engineered for high-speed digital signal analysis in confined spaces and challenging-to-reach device geometries. It delivers sub-88 ps rise time performance and integrates with the AutoProbe interface for automatic oscilloscope configuration on compatible Infiniium platforms. Technical Specifications Bandwidth & Rise Time

Maximum bandwidth: 4 GHz (with 110 Ω resistive signal pin configuration) Rise time: 12 Vpp for edges exceeding 3 nsec Offset capability: ± 15 V Thermal drift: < 1.0 mV/ $^{\circ}$ C Attenuation: 10:1 Input Capacitance 0.8 pF (130 Ω configuration) 0.9 pF (110 Ω configuration) 1.2 pF (5 cm resistive leads) 1.8 pF (10 cm socket-end lead)

Key Features Multiple connector configurations optimize performance across different measurement scenarios. The 110 Ω resistive signal pin achieves full 4 GHz bandwidth with minimal capacitive loading. Lower-bandwidth configurations using extended leads accommodate applications where physical access constraints dictate longer probe paths. Minimal DC resistance (100 k Ω at low frequencies) preserves signal fidelity. Non-resonant input design eliminates ringing artifacts common in passive probes. Vertical offset adjustment via oscilloscope control enables flexible DC biasing.

Typical Applications High-speed digital circuit debugging on densely populated PCBs. Analog signal acquisition on integrated circuits with sub-micron feature spacing. Mixed-signal validation where probe loading must remain below 2 pF. Signal integrity analysis on transmission lines operating above 1 GHz.

Compatibility & Integration AutoProbe interface enables plug-and-play integration with Agilent/Keysight Infiniium Series oscilloscopes, including 54846A Series models 90404A and 90604A. Compatible with InfiniiVision 5000, 6000, and 7000 Series (excluding 6000 Series 100 MHz models). Discontinued June 1, 2014; end of support September 1, 2019.

1158A Characteristics / Specifications

PARAMETER	VALUE
Model	1158A
Instrument Type	InfiniiMax probe amplifier
Bandwidth	4 GHz
Rise Time Class	per the 1158A amplifier bandwidth on the Infiniium probe table
Differential Input Resistance	50 kohm plus or minus 1 percent
Single Ended Input Resistance	25 kohm plus or minus 1 percent
Input Capacitance Cm	0.1 pF between tips
Input Capacitance Cg	0.34 pF each tip to ground
Input Dynamic Range	plus or minus 2.5 V
Common Mode Range Dc To 100 Hz	plus or minus 6.75 V
Dc Attenuation	10:1
Offset Range Single Ended	plus or minus 12.0 V
Noise Referred To Input	3.0 mV rms class InfiniiMaxItable
Maximum Input Voltage	30 V peak CATIEsd Tolerance: greater than 8 kV HBM class
Probe Interface	AutoProbe
Head Family	InfiniiMaxIsolder-in browser socketed
Manufacturer	HP Agilent Keysight
Mechanical Package	probe amplifier
Family	1156A 1157A 1158A
Related 11	1130A/B 1.5 GHz through 1134A/B 7 GHz amplifiers share the head family
Documentation	Keysight Infiniium probes data sheet 1156A-1158A compatibility
Head Compatibility	InfiniiMaxIprobe heads
Rise Time	Class: per the 1158A amplifier bandwidth on the Infiniium probe table
Attenuation	10:1

1158A Specifications

PARAMETER	VALUE
Agilent Keysight 1158A InfiniiMax Probe Amplifier 4 GHz	Overview
Key Features	4 GHz InfiniiMax amplifier
AutoProbe interface	InfiniiMax solder-in browser and socketed heads
Technical Specifications	Model: 1158A

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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Dc Attenuation	10:1
Offset Range Single Ended	plus or minus 12.0 V
Noise Referred To Input	3.0 mV rms class InfiniiMax I table
Maximum Input Voltage	30 V peak CAT I
Esd Tolerance	greater than 8 kV HBM class
Probe Interface	AutoProbe
Head Family	InfiniiMax I solder-in browser socketed
Manufacturer	HP Agilent Keysight
Mechanical Package	probe amplifier
Family	1156A 1157A 1158A
Related 1130	1130A/B 1.5 GHz through 1134A/B 7 GHz amplifiers share the head family
Documentation	Keysight Infiniium probes data sheet 1156A-1158A compatibility
Head Compatibility	InfiniiMax I probe heads
Specifications	

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Head Compatibility	InfiniiMaxIprobe heads

Notes

From Keysight Infinium probe compatibility listings for 1158A (1156A-1158A) and the

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.