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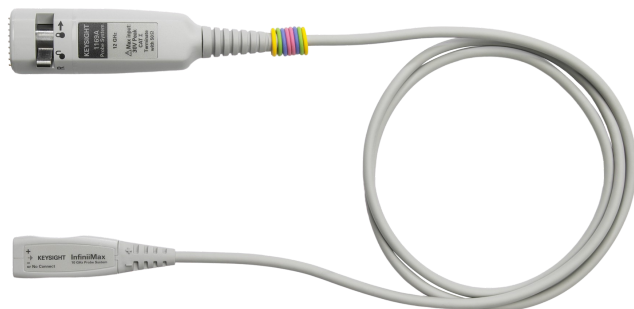
Data Sheet

August 13, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 1168B InfiniiMax II Series Probe Amplifier, 10 GHz

Keysight (Agilent) 1168B InfiniiMax II Probe Amplifier, 10 GHz The Keysight 1168B is the RoHS-compliant InfiniiMax II Series 10 GHz differential/single-ended probe amplifier for Infiniium oscilloscopes. It is form/fit/function equivalent to the 1168A and pairs with InfiniiMax II probe heads (browser, solder-in, socketed, ZIF, QuickTip, soft-touch, SMA, and others). Low 3.4:1 attenuation supports low noise floor for signal-integrity work, with 3.3 Vpp dynamic range and +/-16 V DC offset. 10 GHz real-time Infiniium measurements; differential and single-ended high-speed serial / SI probing; browsing and solder-in access where mechanical flexibility matters without sacrificing bandwidth. The Keysight 1168B is the RoHS-compliant InfiniiMax II Series 10 GHz differential/single-ended probe amplifier for Infiniium oscilloscopes. It is form/fit/function equivalent to the 1168A and pairs with InfiniiMax II probe heads (browser, solder-in, socketed, ZIF, QuickTip, soft-touch, SMA, and others). Low 3.4:1 attenuation supports low noise floor for signal-integrity work, with 3.3 Vpp dynamic range and +/-16 V DC offset. 10 GHz real-time Infiniium measurements; differential and single-ended high-speed serial / SI probing; browsing and solder-in access where mechanical flexibility matters without sacrificing bandwidth.



MODEL

**Keysight / Agilent
1168B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1168B

LISTING

<https://aumictechlabs.com/products/1168b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 1168B InfiniiMax II Series Probe Amplifier delivers 10 GHz bandwidth for high-speed signal acquisition with noise performance. This RoHS-compliant amplifier is engineered to preserve signal integrity in demanding measurement applications, offering the lowest probe noise floor among InfiniiMax probe amplifiers. The 1168B integrates with a comprehensive ecosystem of InfiniiMax II probe heads and modern oscilloscope platforms, making it ideal for precision signal characterization across frequencies to 10 GHz.

Technical Specifications
Bandwidth: 10 GHz
Dynamic Range: 3.3 V peak-to-peak
DC Offset Range: ± 16 V
Maximum Voltage: ± 30 V
Attenuation Ratio (DC): 3.4:1
Differential Input Impedance: 50 k Ω resistance, 0.21 pF capacitance
Single-Ended Input Impedance: 25 k Ω resistance, 0.35 pF capacitance
Noise Floor: Lowest among InfiniiMax probe amplifiers, optimized for high-sensitivity signal integrity measurements

Key Features
low-noise performance for sensitive measurements
Wide DC offset range of ± 16 V accommodates biased signals
High input impedance minimizes circuit loading (50 k Ω differential, 25 k Ω single-ended)
3.4:1 DC attenuation ratio provides measurement flexibility
RoHS compliant design

Compatibility & Integration
Probe Head Support: Compatible with 12–25 GHz InfiniiMax II probe heads including MX0100A (25 GHz), MX0106A (23 GHz), MX0105A (20 GHz), N2839A (21 GHz), N5425B (18 GHz), and N2851A/E2678B/N5381B/N5380B/E2677B (12 GHz) options, plus differential probe variants.
Oscilloscope Connectivity: MXR, EXR, S-Series, 90000A, 90000X/Q/V/Z-series (with N5442A), UXR 3.5 mm (with N5442A), UXR 1 & 1.85 mm (with N5442A and N2852A), 86100D (with N1022B), and 80000B series.

Features & description

From manufacturer datasheet

Features

- 10 GHz bandwidth InfiniiMax II amplifier

1168B Characteristics / Specifications

PARAMETER	VALUE
Model	1168B
Manufacturer	Keysight Technologies
Instrument Type	Active probe amplifier (InfiniiMax II)
Family	InfiniiMax II Series
Alias	1168B; Keysight 1168B; Agilent 1168B
Bandwidth	10 GHz
DC attenuation ratio	3.4:1
Dynamic range	3.3 V peak-to-peak
DC offset range	+/-16 V
Differential input resistance	50 kOhm
Differential input capacitance	0.21 pF
Probe system	InfiniiMax II (amplifier + interchangeable heads)
Host instruments	Infiniium oscilloscopes (compatible AutoProbe / InfiniiMax interfaces)
Predecessor equivalent	1168A (form/fit/function/price equivalent; 1168B is RoHS)
Typical accessory heads	browser; solder-in; socketed; ZIF; QuickTip; soft-touch; SMA
Product weight class	about 1.52 lb (reseller listing) Notes Specs from Keysight 1168B InfiniiMax II product literature. Confirm AutoProbe interface revision on the host Infiniium and which probe heads are included with the amplifier.
DC attenuation ratio 3.4	1 (lowest noise-floor class among InfiniiMax amplifiers)
Attenuation	supports low noise floor for signal-integrity work, with 3.3 Vpp dynamic range and +/-16 V DC offset.

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	1168B
Manufacturer	Keysight Technologies
Instrument Type	Active probe amplifier (InfiniiMax II)

Specifications

PARAMETER	VALUE
Family	InfiniiMax II Series
Alias	1168B; Keysight 1168B; Agilent 1168B
Bandwidth	10 GHz

Specifications

PARAMETER	VALUE
DC attenuation ratio	3.4:1
Dynamic range	3.3 V peak-to-peak
DC offset range	+/-16 V

Maximum non-destructive input voltage: +/-30 V

Differential input resistance: 50 kOhm

Differential input capacitance: 0.21 pF

Single-ended input resistance: 25 kOhm

Single-ended input capacitance: 0.35 pF

Specifications

PARAMETER	VALUE
Probe system	InfiniiMax II (amplifier + interchangeable heads)
Host instruments	Infiniium oscilloscopes (compatible AutoProbe / InfiniiMax interfaces)
Predecessor equivalent	1168A (form/fit/function/price equivalent; 1168B is RoHS)

Related higher-BW sibling: 1169B (12 GHz)

Typical accessory heads: browser; solder-in; socketed; ZIF; QuickTip; soft-touch; SMA

Product weight class: about 1.52 lb (reseller listing)

Notes

Specs from Keysight 1168B InfiniiMax II product literature. Confirm AutoProbe interface revision on the host Infiniium and which probe heads are included with the amplifier.

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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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.