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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2818A

HP Agilent Keysight N2818A Differential Probe 200 MHz AutoProbe The Keysight N2818A is the AutoProbe-powered 200 MHz differential probe counterpart to the N2792A. OEM data sheet 5990-4753EN lists the same 10:1 attenuation, 1 MOhm // 3.5 pF differential loading, and 1.75 ns rise time, with probe power supplied by the oscilloscope AutoProbe interface instead of USB/battery. General-purpose differential measurements on Keysight AutoProbe oscilloscopes for power, vehicle bus, and digital designs. AutoProbe interface power from oscilloscope The Keysight N2818A is the AutoProbe-powered 200 MHz differential probe counterpart to the N2792A. OEM data sheet 5990-4753EN lists the same 10:1 attenuation, 1 MOhm // 3.5 pF differential loading, and 1.75 ns rise time, with probe power supplied by the oscilloscope AutoProbe interface instead of USB/battery. General-purpose differential measurements on Keysight AutoProbe oscilloscopes for power, vehicle bus, and digital designs. AutoProbe interface power from oscilloscope 1 MOhm differential input with 3.5 pF capacitance



MODEL

**Agilent / Keysight
N2818A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2818A

LISTING

<https://aumictechlabs.com/products/n2818a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N2818A is a 12 GHz high-sensitivity differential probe designed for precise measurement of fast-changing signals in advanced electronic systems. It delivers minimal circuit loading through high input impedance and exceptionally low input capacitance, making it essential for jitter analysis, power integrity investigations, and signal integrity work in complex digital and

analog circuits. The probe operates at 10:1 attenuation with differential bandwidth to 12 GHz and common mode bandwidth to 1 GHz.

Technical Specifications

Differential Bandwidth: 12 GHz
Common Mode Bandwidth: 1 GHz
Attenuation: 10:1
Input Impedance: $1\text{ M}\Omega \parallel 0.3\text{ pF}$ (differential)
Common Mode Input Impedance: $2\text{ M}\Omega \parallel 0.15\text{ pF}$ (differential to ground)
Input Capacitance: 0.3 pF (differential)
Common Mode Rejection Ratio (CMRR): >60 dB DC, >60 dB @ 1 MHz, >50 dB @ 10 MHz, >40 dB @ 100 MHz, >30 dB @ 1 GHz, >20 dB @ 10 GHz
Noise: <1.5 mVrms (typical)
Offset: $\pm 50\text{ mV}$ (typical)
Rise Time: <29.2 ps (system rise time, 12 GHz probe with 20 GHz scope)
Maximum Differential Voltage: 10 Vpp (DC + Peak AC)
Maximum Common Mode Voltage: $\pm 10\text{ V}$ (DC + Peak AC)
Probe Length: 1.3 meters
Operating Temperature: 0 °C to 50 °C
Storage Temperature: -40 °C to 70 °C

Key Features

- Ultra-low input capacitance minimizes loading effects on test circuits
- High input impedance preserves signal fidelity during measurement
- Frequency-dependent CMRR enables rejection of common mode noise across the measurement bandwidth
- Low noise floor supports detection of small-amplitude signals
- Power supplied directly from connected oscilloscope eliminates external power requirements

Typical Applications

- High-speed digital signal characterization
- Jitter and timing analysis on fast transient signals
- Power integrity measurements in advanced circuit designs
- Differential signal acquisition in mixed-signal systems

Compatibility & Integration

The N2818A connects directly to compatible Agilent/Keysight oscilloscopes featuring the required probe interface. The probe draws operating power and receives control signals from the host instrument. Included accessories comprise probe tips, ground clips, stylus, tip holder, verification fixture, and user documentation.

N2818A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Differential probe AutoProbe
Bandwidth	200 MHz (-3 dB)
Attenuation	10:1
Probe Rise Time	1.75 ns (10 percent to 90 percent)
Gain Accuracy	plus or minus 2 percent of reading
Absolute Max Rated Input Each Side To Ground	plus or minus 60 V
Maximum Common Mode Input Voltage	plus or minus 60 V
Input Resistance Differential	1 MOhm
Input Capacitance Differential	3.5 pF between inputs
Input Each Side To Ground Class	500 kOhm // 7 pF
Output Voltage Into 50 Ohm	plus or minus 1.5 V
Offset Adjustment Range	-95 mV to plus 95 mV
Ac Cmrr	greater than -80 dB at 50/60 Hz; greater than -50 dB at 10 MHz
Noise Referenced To Input	6 mVrms probe only
Power Requirements	AutoProbe interface from oscilloscope
Scope Interface	AutoProbe
Compatible Extreme Temp Kit	N7013A at derated bandwidths
Series Family	Keysight N2792A/N2818A
Literature	Keysight 5990-4753EN
Accessory Kit Class	N2792-68700 family accessories
Probe Tip Accessory Kit Class	N2792-68700 family accessories
Can Flexray Db9 Head	0960-2926 class
Rise Time	1.75 ns (10 percent to 90 percent)

N2818A Specifications

PARAMETER	VALUE
AutoProbe interface power from oscilloscope	Fixed 10:1 attenuation
Same electrical class as N2792A	N7013A extreme temperature cable kit compatible at derated bandwidth
Technical Specifications	Instrument Type: Differential probe AutoProbe
Notes	From Keysight 5990-4753EN N2792A/N2818A column. Electrical rows are shared with N2792A; powering differs (AutoProbe vs USB/battery).

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.

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(AutoProbe vs USB/battery).

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 ·
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.