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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2804A

Keysight N2804A 300 MHz High Voltage Differential Probe The Keysight N2804A is a 300 MHz 100:1 high-voltage differential probe. OEM Infiniium probes data sheet lists 300 MHz without extension leads (120 MHz with leads), 4 Mohm / 4 pF between inputs, plus or minus 300 V (DC+peak AC) and plus or minus 200 Vrms between inputs, plus or minus 1 percent DC gain accuracy, and 1.2 m cable. Switching-power, DC-DC, Class-D, and vehicle-bus differential measurements on Infiniium S/9000/90000 scopes (software 5.2 or higher). The Keysight N2804A is a 300 MHz 100:1 high-voltage differential probe. OEM Infiniium probes data sheet lists 300 MHz without extension leads (120 MHz with leads), 4 Mohm / 4 pF between inputs, plus or minus 300 V (DC+peak AC) and plus or minus 200 Vrms between inputs, plus or minus 1 percent DC gain accuracy, and 1.2 m cable. Switching-power, DC-DC, Class-D, and vehicle-bus differential measurements on Infiniium S/9000/90000 scopes (software 5.2 or higher). 100:1 attenuation for high-voltage differentials



MODEL

**Agilent / Keysight
N2804A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2804A

LISTING

<https://aumictechlabs.com/products/n2804a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N2804A is a 300 MHz differential probe engineered for floating signal measurements on high-speed power systems, vehicle bus architectures, and digital designs. Powered directly by the oscilloscope's AutoProbe interface, it enables safe measurements on

earth-grounded instruments without requiring external power supplies.

Technical Specifications
Bandwidth: 300 MHz (without extension leads) Attenuation Ratio: 100:1 Rise Time (calculated): 1.167 ns Differential Input Resistance: 4 M Ω Input Capacitance: 4 pF Common Mode Rejection Ratio (CMRR): >70 dB at 1 MHz Maximum Differential Operating Voltage: ± 300 V (DC + peak AC) / ± 200 Vrms Common Mode Voltage: ± 1000 V Measurement Category: CAT II

Key Features
AutoProbe interface integration - power supplied directly from compatible Keysight oscilloscopes 100:1 attenuation reduces channel loading on high-impedance circuits High common-mode voltage rating (± 1000 V) for industrial and automotive applications 4 pF input capacitance minimizes probe loading on sensitive RF and high-speed digital signals Includes 30 cm extension leads, alligator clips, pincer clips, and trimmer tool

Typical Applications
High-speed power delivery measurements and transient analysis CAN/LIN automotive bus monitoring and diagnostics Floating-node measurements in three-phase systems and motor drives High-speed digital signal characterization with minimal capacitive loading

Compatibility & Integration
Designed for oscilloscopes with 50 Ω AutoProbe-interface channel inputs. Compatible with Keysight 3000T/4000X/6000X/9000/S-Series, InfiniiVision, and Infiniium Series oscilloscopes. Operating temperature range: +5 $^{\circ}\text{C}$ to +40 $^{\circ}\text{C}$. Non-operating temperature range: -30 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$. Maximum operating altitude: 2,000 m.

N2804A Characteristics / Specifications

PARAMETER	VALUE
Model	N2804A
Instrument Type	High voltage differential probe
Bandwidth Without Leads	300 MHz
Bandwidth With Extension Leads	120 MHz
Attenuation Ratio	100:1
Dc Gain Accuracy	plus or minus 1 percent
Input Impedance Between Inputs	4 Mohm / 4 pF
Max Voltage Between Inputs	plus or minus 300 V DC plus peak AC and plus or minus 200 Vrms
Max Input Cat II	plus or minus 300 V DC plus peak AC and plus or minus 200 Vrms CAT II
Max Input Cat I	plus or minus 1000 V DC plus peak AC and plus or minus 1000 Vrms CATICable Length: 1.2 m
Extension Lead Length	30 cm with built-in damping resistor
Two Hundred Mhz Sibling	N2805A 200 MHz with 5 m cable 50:1
Tip Kit	N2816A alligator pincer and extension leads
Compatible Scopes	Infiniium S-Series, 9000, 90000 with software 5.2 or higher
Manufacturer	HP Agilent Keysight
Mechanical Package	high voltage differential probe
Application Class	switching power and vehicle bus
Probe Family	N2804A/N2805A
Damping	extension leads include damping resistor for flat response
Minimum Frequency	DC
Attenuation Class	100:1 high voltage differential
Bandwidth	Without Leads: 300 MHz
Attenuation	Ratio: 100:1

N2804A Specifications

PARAMETER	VALUE
Keysight N2804A 300 MHz High Voltage Differential Probe	Overview
Applications	Switching-power, DC-DC, Class-D, and vehicle-bus differential measurements on Infiniium S/9000/90000 scopes (software 5.2 or higher).
Key Features	100:1 attenuation for high-voltage differentials
Technical Specifications	Model: N2804A

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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Max Input Cat II	plus or minus 300 V DC plus peak AC and plus or minus 200 Vrms CAT II
Max Input Cat I	plus or minus 1000 V DC plus peak AC and plus or minus 1000 Vrms CAT I
Cable Length	1.2 m
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Two Hundred Mhz Sibling	N2805A 200 MHz with 5 m cable 50:1
Tip Kit	N2816A alligator pincer and extension leads
Compatible Scopes	Infiniium S-Series, 9000, 90000 with software 5.2 or higher
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Minimum Frequency	DC
Attenuation Class	100:1 high voltage differential

Notes

From Keysight Infiniium Oscilloscope Probes and Accessories data sheet N2804A/N2805A table. Bandwidth drops to 120 MHz when the 30 cm extension leads are fitted.

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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Generated August 15, 2026

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