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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N2802A 25 GHz InfiniiMax III Probe Amplifier

Keysight / Agilent N2802A InfiniiMax III Probe Amplifier, 25 GHz The N2802A is a 25 GHz InfiniiMax III differential probe amplifier for Infiniium 90000 X/Q/Z Series 25 GHz oscilloscopes. Same InfiniiMax III head ecosystem as N2800/01/03A; stores measured S-parameters for automatic correction. The N2802A is a 25 GHz InfiniiMax III differential probe amplifier for Infiniium 90000 X/Q/Z Series 25 GHz oscilloscopes. Same InfiniiMax III head ecosystem as N2800/01/03A; stores measured S-parameters for automatic correction.



MODEL

**Keysight / Agilent
N2802A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2802A

LISTING

<https://aumictechlabs.com/products/n2802a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight (Agilent) N2802A 25 GHz InfiniiMax III Probe Amplifier delivers signal acquisition for advanced high-speed digital and microwave probing. Built on a proprietary 200 GHz fT indium phosphide (InP) IC process with backside ground vias and thick film technology, this amplifier provides full 25 GHz bandwidth directly at the probe tip while maintaining ultra-low loading on the Device Under Test. The result is superior signal fidelity and minimal DUT perturbation - critical for accurate measurements in demanding applications. Technical Specifications Bandwidth and Rise Time Bandwidth: 25 GHz Rise Time: 17.4 psec Attenuation and Input Voltage DC Attenuation Ratio:

6:1 (standard) or 3:1 (with 200 Ω ZIF tip) Input Voltage Range: 1.6 Vpp (standard) or 0.8 Vpp (with 200 Ω ZIF tip) Offset Range: ± 16 V (single-ended) Input Common Mode Range DC to 250 Hz: ± 12 V (standard) or ± 6 V (200 Ω ZIF tip) Above 250 Hz: ± 2.5 V (standard) or ± 1.25 V (200 Ω ZIF tip) Input Impedance DC: 100 k Ω differential ($\pm 2\%$), 50 k Ω single-ended ($\pm 2\%$) Above 10 kHz: 1 k Ω differential, 500 Ω single-ended Input Capacitance: 32 fF differential, 48 fF single-ended (with ZIF probe head) Key Features Full 25 GHz bandwidth to probe tip for accurate high-frequency signal capture Ultra-low DUT loading with minimal signal integrity degradation Loaded with measured S-parameters for accurate response correction InfiniiMode Technology enables differential, single-ended, and common mode measurements without probe tip reconfiguration Compatible with multiple InfiniiMax III probe head variants Bandwidth upgrade capability Low system noise contribution for probe and oscilloscope system performance Typical Applications High-speed digital circuit characterization and debug Microwave signal acquisition and analysis Advanced semiconductor device probing Signal integrity validation in complex IC designs Compatibility & Integration Designed for use with InfiniiMax III probe heads, the N2802A integrates into existing InfiniiMax III measurement systems and is compatible with Keysight oscilloscope platforms.

Features & description

From manufacturer datasheet

Features

- Bandwidth: 25 GHz
- Probe family: InfiniiMax III (not compatible with InfiniiMax I/II heads)
- Recommended hosts: Infiniium 90000 X/Q/Z Series 25 GHz models
- DC input Rclass (family): $R_{diff} = 100\text{ k}\Omega \pm 2\%$; $R_{se} = 50\text{ k}\Omega \pm 2\%$
- Attenuation / dynamic range: InfiniiMax III family 6:1 class (1.6 Vpp class with standard tips)
- Related amps: N2800A 16 GHz; N2801A 20 GHz; N2802A 25 GHz; N2803A 30 GHz
- Heads: N5445A browser, N5439A ZIF, N5444A SMA, solder-in heads per III system sheet
- S-parameter correction: amplifier pre-loaded measured S-parameters

Applications

- Differential probing to 25 GHz
- High-speed serial validation
- Matched probing for 25 GHz Infiniium scopes

N2802A Characteristics / Specifications

PARAMETER	VALUE
Model	N2802A
Manufacturer	Keysight / Agilent
Instrument Type	InfiniiMax III Probe Amplifier
Alias	N2802A; Keysight N2802A
Bandwidth	25 GHz
Probe family	InfiniiMax III (not compatible with InfiniiMax I/II heads)
Host scopes	Infiniium 90000 X/Q/Z 25 GHz
Rdiff DC	100 k Ω $\pm$ 2%
Head compatibility	InfiniiMax III only Notes Specs from Keysight InfiniiMax III/III+ probing system data sheet (N2802A row). Exact tip BW andCdepend on probe head—confirm head on the unit.
Recommended hosts	Infiniium 90000 X/Q/Z Series 25 GHz models
DC inputRclass (family)	Rdiff = 100 k Ω $\pm$ 2%; Rse = 50 k Ω $\pm$ 2%
Attenuation / dynamic range	InfiniiMax III family 6:1 class (1.6 Vpp class with standard tips)
Related amps	N2800A 16 GHz; N2801A 20 GHz; N2802A 25 GHz; N2803A 30 GHz
Heads	N5445A browser, N5439A ZIF, N5444A SMA, solder-in heads per III system sheet
S-parameter correction	amplifier pre-loaded measured S-parameters
Attenuation	/ dynamic range: InfiniiMax III family 6:1 class (1.6 Vpp class with standard tips) - Related amps: N2800A 16 GHz; N2801A 20 GHz; N2802A 25 GHz; N2803A 30 GHz - Heads: N5445A browser, N5439A ZIF, N5444A SMA, solder-in heads per III system sheet - S-p

N2802A Specifications

PARAMETER	VALUE
Applications	- Differential probing to 25 GHz
Key Features	- Bandwidth: 25 GHz
Technical Specifications	Model: N2802A

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	N2802A
Manufacturer	Keysight / Agilent
Instrument Type	InfiniiMax III Probe Amplifier
Alias	N2802A; Keysight N2802A

Specifications

PARAMETER	VALUE
Bandwidth	25 GHz
Probe family	InfiniiMax III
Host scopes	Infiniium 90000 X/Q/Z 25 GHz
Rdiff DC	100 kΩ ±2%
Head compatibility	InfiniiMax III only

Notes
Specs from Keysight InfiniiMax III/III+ probing system data sheet (N2802A row). Exact tip BW andCdepend on probe head-confirm head on the unit.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.