

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N5381B 12 GHz Differential Solder-In Probe Head

Agilent Keysight N5381B InfiniiMax II Solder In Probe Head 12 GHz The Keysight N5381B is a high-bandwidth solder-in differential probe head for InfiniiMax II 1168A/1169A amplifiers. OEM Infiniium Oscilloscope Probes and Accessories data sheet lists 12 GHz specified (13 GHz typical with DSO81304A/DSO91304A), 0.21 pF / 50 kOhm differential loading, 0.35 pF / 25 kOhm single-ended loading, and 0.2 to 3.3 mm variable spacing. Solder-in access to small-geometry differential and single-ended nodes on InfiniiMax II 10 GHz and 12 GHz probing systems. The Keysight N5381B is a high-bandwidth solder-in differential probe head for InfiniiMax II 1168A/1169A amplifiers. OEM Infiniium Oscilloscope Probes and Accessories data sheet lists 12 GHz specified (13 GHz typical with DSO81304A/DSO91304A), 0.21 pF / 50 kOhm differential loading, 0.35 pF / 25 kOhm single-ended loading, and 0.2 to 3.3 mm variable spacing. Solder-in access to small-geometry differential and single-ended nodes on InfiniiMax II 10 GHz and 12 GHz probing systems. Minimizes capacitive loading to less than or equal to 210 fF differential



MODEL

**Agilent / Keysight
N5381B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5381B

LISTING

<https://aumictechlabs.com/products/n5381b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N5381B differential serial data analyzer probe is an essential tool for engineers working with high-speed digital interfaces. This probe allows for precise measurements and analysis of differential signals, ensuring signal integrity and performance. Various applications including PCI Express, USB, and other serial protocols.

N5381B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	InfiniiMax II high bandwidth solder-in differential probe head
Series Family	Keysight InfiniiMax II N5380B / N5381B / N5382A
Bandwidth With 1169a	12 GHz specified
Bandwidth Typical 13 Ghz Scope	13 GHz typical with DSO81304A or DSO91304A
Bandwidth With 1168a	10 GHz class with 1168A amplifier
Differential Capacitance	0.21 pF
Differential Resistance	50 kOhm
Single Ended Capacitance	0.35 pF
Single Ended Resistance	25 kOhm
Capacitive Loading Max	less than or equal to 210 fF
Variable Spacing	0.2 mm to 3.3 mm (8 to 130 mil)
Compatible Amplifiers	1168A (10 GHz) and 1169A (12 GHz spec, 13 GHz typical)
Compatible Scopes	Infiniium 80000A and 90000A Series
Amplifier 1169a Bandwidth Spec	greater than 12 GHz (13 GHz typical)
Amplifier 1168a Bandwidth Spec	greater than 10 GHz
System Bandwidth 91304a	13 GHz typical (1169A with 91304A)
System Bandwidth 91204a	12 GHz (1169A with 91204A)
Probe Mode	differential and single-ended
Head Style	solder-in
Related Browser Head	N5382A
Related Sma Head	N5380B 12 GHz differential SMA
Literature	Keysight Infiniium Oscilloscope Probes and Accessories data sheet InfiniiMax II tables
Bandwidth	solder-in differential probe head

N5381B Specifications

PARAMETER	VALUE
Applications	Solder-in access to small-geometry differential and single-ended nodes on InfiniiMax II 10 GHz and 12 GHz probing systems.
Key Features	Minimizes capacitive loading to less than or equal to 210 fF differential
Variable spacing 0.2 to 3.3 mm (8 to 130 mil)	Specified 12 GHz with 1169A; 13 GHz typical on 13 GHz Infiniium
Technical Specifications	Instrument Type: InfiniiMax II high bandwidth solder-in differential probe head

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
Instrument Type	InfiniiMax II high bandwidth solder-in differential probe head
Series Family	Keysight InfiniiMax II N5380B / N5381B / N5382A
Bandwidth With 1169a	12 GHz specified
Bandwidth Typical 13 Ghz Scope	13 GHz typical with DS081304A or DS091304A
Bandwidth With 1168a	10 GHz class with 1168A amplifier
Differential Capacitance	0.21 pF
Differential Resistance	50 kOhm
Single Ended Capacitance	0.35 pF
Single Ended Resistance	25 kOhm
Capacitive Loading Max	less than or equal to 210 fF
Variable Spacing	0.2 mm to 3.3 mm (8 to 130 mil)
Compatible Amplifiers	1168A (10 GHz) and 1169A (12 GHz spec, 13 GHz typical)
Compatible Scopes	Infiniium 80000A and 90000A Series
Amplifier 1169a Bandwidth Spec	greater than 12 GHz (13 GHz typical)
Amplifier 1168a Bandwidth Spec	greater than 10 GHz
System Bandwidth 91304a	13 GHz typical (1169A with 91304A)
System Bandwidth 91204a	12 GHz (1169A with 91204A)
Probe Mode	differential and single-ended
Head Style	solder-in
Related Browser Head	N5382A
Related Sma Head	N5380B 12 GHz differential SMA
Literature	Keysight Infiniium Oscilloscope Probes and Accessories data sheet InfiniiMax II tables
Notes	
From Keysight Infiniium Oscilloscope Probes and Accessories data sheet InfiniiMax II probe-head table row N5381B and 1168A/1169A amplifier bandwidth rows. Loading values are the differential / single-ended pair on that table.	

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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.