

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2750A

Keysight Agilent N2750A InfiniiMode Differential Active Probe 1.5 GHz The Keysight (Agilent) N2750A is a 1.5 GHz InfiniiMode differential active probe with dual 2:1/10:1 attenuation. OEM N2750A/51A/52A datasheet 5991-0560EN rates 200 kOhm differential / 100 kOhm single-ended input resistance, 700 fF input capacitance, plus or minus 15 V offset, and AutoProbe power/configuration. General-purpose high-speed differential, single-ended, and common-mode probing on digital and analog signals with InfiniiVision/Infiniium AutoProbe scopes. The Keysight (Agilent) N2750A is a 1.5 GHz InfiniiMode differential active probe with dual 2:1/10:1 attenuation. OEM N2750A/51A/52A datasheet 5991-0560EN rates 200 kOhm differential / 100 kOhm single-ended input resistance, 700 fF input capacitance, plus or minus 15 V offset, and AutoProbe power/configuration. General-purpose high-speed differential, single-ended, and common-mode probing on digital and analog signals with InfiniiVision/Infiniium AutoProbe scopes. InfiniiMode A-B A-gnd B-gnd and common-mode without reconnecting



MODEL

**Agilent / Keysight
N2750A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2750A

LISTING

<https://aumictechlabs.com/products/n2750a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N2750A InfiniiMode Active Differential Probe delivers 1.5 GHz bandwidth for high-speed digital and analog signal characterization. This probe measures differential, single-ended, and common-mode signals simultaneously without changing probe connections, streamlining debug workflows. AutoProbe interface integration enables automatic configuration and power

delivery on compatible Keysight oscilloscopes, eliminating manual setup overhead.

Technical Specifications
Bandwidth: 1.5 GHz Attenuation Ratio: 2:1 or 10:1 (switchable, auto-configured by input signal magnitude) Dynamic Range: ± 5 V or 10 Vpp at 10:1 attenuation; ± 1 V or 2 Vpp at 2:1 attenuation DC Offset Range: ± 15 V Maximum Input Voltage: 30 V DC + peak AC Differential Input Resistance: 200 k Ω Single-ended Input Resistance: 100 k Ω Common Mode Input Resistance: 50 k Ω Input Capacitance: 700 fF (with browser tip) Common Mode Rejection Ratio: >60 dB at 1 MHz

Key Features
InfiniiMode operation enables simultaneous differential, single-ended A/B, and common-mode measurements from one probe tip Quick Action Scope Control button provides immediate access to run/stop, auto scale, and save functions Built-in headlight illuminates test points for improved visibility Channel identification rings simplify probe recognition in multi-probe setups Included tip set: 2 $\times$ solder-in, 2 $\times$ socketed InfiniiMode tips; 2 $\times$ differential browser tips Optional replacement tips available for all configurations

Typical Applications
Differential signal analysis on high-speed buses, single-ended measurements on mixed-signal boards, and common-mode noise characterization in coupled signal environments benefit from the probe's flexible measurement modes and >60 dB CMRR performance.

Compatibility & Integration
Supported platforms include InfiniiVision 3000/4000/6000 X-Series and 9000 Series, S-Series oscilloscopes, and Infiniium 9000/90000/90000 Q/X-Series instruments (Infiniium requires software v3.50 or later). InfiniiVision 3000 X-Series accommodates one probe; 4000 X-Series supports up to four probes.

Features & description

From manufacturer datasheet

Built-in headlight and quick-action scope control

Standard solder-in socketed and browser tips AutoProbe interface power and identification Technical Specifications Model: N2750A Instrument Type: InfiniiMode differential active probe Probe Bandwidth Minus 3 Db: 1.5 GHz Rise Time Probe Only 10 To 90: 233 ps System Bandwidth With 1 Ghz Scope: 1 GHz Input Resistance Differential: 200 kOhm plus or minus 2 percent Input Resistance Single Ended: 100 kOhm plus or minus 2 percent Input Resistance Common Mode: 50 kOhm plus or minus 2 percent Input Capacitance With Browser: 700 fF Attenuation Ratio At Dc: 2:1 / 10:1 Input Dynamic Range At 2 To 1: plus or minus 1 V 2 Vpp mains isolated Input Dynamic Range At 10 To 1: 10 Vpp mains isolated Input Common Mode Range Dc To 100 Hz: plus or minus 15 V Input Common Mode Range Above 100 Hz: plus or minus 2.5 V Offset Range: plus or minus 15 V Offset Accuracy: less than 3 percent Maximum Nondestructive Input: plus or minus 30 V DC plus peak AC mains isolated Differential Mode Rejection At 1 Mhz: 40 dB Channel Isolation Single Ended At 1 Mhz: 60 dB Noise Referred To Input At 2 To 1: 2.5 mVrms Noise Referred To Input At 10 To 1: 7 mVrms Maximum Signal Slew Rate Differential 10x: 30 V/ns Propagation Delay: 6.85 ns

N2750A Characteristics / Specifications

PARAMETER	VALUE
Model	N2750A
Instrument Type	InfiniiMode differential active probe
Probe Bandwidth Minus 3 Db	1.5 GHz
Rise Time Probe Only 10 To	233 ps
System Bandwidth With 1 Ghz Scope	1 GHz
Input Resistance Differential	200 kOhm plus or minus 2 percent
Input Resistance Single Ended	100 kOhm plus or minus 2 percent
Input Resistance Common Mode	50 kOhm plus or minus 2 percent
Input Capacitance With Browser	700 fF
Attenuation Ratio At Dc	2:1 / 10:1
Input Dynamic Range At 2 To	plus or minus 1 V 2 Vpp mains isolated
Input Dynamic Range At 10 To	10 Vpp mains isolated
Input Common Mode Range Dc To 100 Hz	plus or minus 15 V
Input Common Mode Range Above 100 Hz	plus or minus 2.5 V
Offset Range	plus or minus 15 V
Offset Accuracy	less than 3 percent
Maximum Nondestructive Input	plus or minus 30 V DC plus peak AC mains isolated
Differential Mode Rejection At 1 Mhz	40 dB
Channel Isolation Single Ended At 1 Mhz	60 dB
Noise Referred To Input At 2 To	2.5 mVrms
Noise Referred To Input At 10 To	7 mVrms
Maximum Signal Slew Rate Differential 10x	30 V/ns
Propagation Delay	6.85 ns
Output Impedance	50 Ohm

PARAMETER	VALUE
Cable Length	1.3 m
Probe Weight	100 g
Ambient Operating Temperature	0 to plus 40 C
Ambient Nonoperating Temperature	-40 to plus 70 C
Operating Humidity	up to 95 percent RH at plus 40 C non-condensing
Operating Altitude	4600 m
Esd Tolerance	greater than 8 kV HBM 100 pF 300 Ohm
Bandwidth	Minus 3 Db: 1.5 GHz
Rise Time	Probe Only 10 To 90: 233 ps
Attenuation	Ratio At Dc: 2:1 / 10:1
Operating temperature	0 to plus 40 C
Humidity	up to 95 percent RH at plus 40 C non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to plus 40 C
Operating Temperature	0 to plus 40 C
Humidity	up to 95 percent RH at plus 40 C non-condensing
Ambient Nonoperating Temperature	-40 to plus 70 C
Operating Humidity	up to 95 percent RH at plus 40 C non-condensing
Operating Altitude	4600 m
Esd Tolerance	greater than 8 kV HBM 100 pF 300 Ohm Notes From Keysight N2750A/51A/52A InfiniiMode Differential Active Probes datasheet 5991-0560EN for N2750A column. Warranted electrical specifications at 2:1 after 20 minute warm-up where marked.

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	N2750A
Instrument Type	InfiniiMode differential active probe
Probe Bandwidth Minus 3 Db	1.5 GHz
Rise Time Probe Only 10 To 90	233 ps
System Bandwidth With 1 Ghz Scope	1 GHz
Input Resistance Differential	200 kOhm plus or minus 2 percent
Input Resistance Single Ended	100 kOhm plus or minus 2 percent
Input Resistance Common Mode	50 kOhm plus or minus 2 percent
Input Capacitance With Browser	700 fF
Attenuation Ratio At Dc	2:1 / 10:1
Input Dynamic Range At 2 To 1	plus or minus 1 V 2 Vpp mains isolated
Input Dynamic Range At 10 To 1	10 Vpp mains isolated

Input Common Mode Range Dc To 100 Hz: plus or minus 15 V

Specifications

PARAMETER	VALUE
Input Common Mode Range Above 100 Hz	plus or minus 2.5 V
Offset Range	plus or minus 15 V
Offset Accuracy	less than 3 percent
Maximum Nondestructive Input	plus or minus 30 V DC plus peak AC mains isolated
Differential Mode Rejection At 1 Mhz	40 dB
Channel Isolation Single Ended At 1 Mhz	60 dB

Noise Referred To Input At 2 To 1: 2.5 mVrms
Noise Referred To Input At 10 To 1: 7 mVrms

Specifications

PARAMETER	VALUE
Maximum Signal Slew Rate Differential 10x	30 V/ns
Propagation Delay	6.85 ns
Output Impedance	50 Ohm
Cable Length	1.3 m
Probe Weight	100 g
Ambient Operating Temperature	0 to plus 40 C
Ambient Nonoperating Temperature	-40 to plus 70 C
Operating Humidity	up to 95 percent RH at plus 40 C non-condensing
Operating Altitude	4600 m
Esd Tolerance	greater than 8 kV HBM 100 pF 300 Ohm

Notes

From Keysight N2750A/51A/52A InfiniiMode Differential Active Probes datasheet 5991-0560EN for N2750A column.
Warranted electrical specifications at 2:1 after 20 minute warm-up where marked.

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.