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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2751A

Keysight Agilent N2751A InfiniiMode Differential Active Probe 3.5 GHz The Keysight (Agilent) N2751A is the 3.5 GHz member of the N2750A Series InfiniiMode differential active probes. OEM datasheet 5991-0560EN rates 100 ps probe-only rise time, 2.5 GHz system bandwidth with a 2.5 GHz Infiniium scope, dual 2:1/10:1 attenuation, and the same 200 kOhm / 700 fF loading class as N2750A. Higher-speed differential serial and digital debug needing 3.5 GHz probe bandwidth with InfiniiMode tip reuse. InfiniiMode differential single-ended and common-mode modes The Keysight (Agilent) N2751A is the 3.5 GHz member of the N2750A Series InfiniiMode differential active probes. OEM datasheet 5991-0560EN rates 100 ps probe-only rise time, 2.5 GHz system bandwidth with a 2.5 GHz Infiniium scope, dual 2:1/10:1 attenuation, and the same 200 kOhm / 700 fF loading class as N2750A. Higher-speed differential serial and digital debug needing 3.5 GHz probe bandwidth with InfiniiMode tip reuse. InfiniiMode differential single-ended and common-mode modes Standard solder-in socketed and browser tips



MODEL

**Agilent / Keysight
N2751A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2751A

LISTING

<https://aumictechlabs.com/products/n2751a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N2751A is an InfiniiMode active differential probe for Keysight InfiniiVision and Infiniium series oscilloscopes equipped with AutoProbe interface. It acquires differential, single-ended, and common mode signals through a single probe tip, eliminating manual reconfiguration

between measurement types. The probe delivers 3.5 GHz bandwidth with 100 psec rise time, making it suitable for digital system design, component characterization, and serial bus measurements.

Technical Specifications

Bandwidth & Speed Bandwidth: 3.5 GHz Rise time: 100 psec

Measurement Modes & Dynamic Range Differential (A – B), single-ended A, single-ended B, common mode $((A+B)/2 - \text{ground})$ Dynamic range at 10:1 attenuation: ± 5 V or 10 Vpp Dynamic range at 2:1 attenuation: ± 1 V or 2 Vpp Attenuation: 2:1 or 10:1 (switchable, auto-configured by input signal size)

Input Specifications 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)

Key Features AutoProbe interface enables automatic probe configuration and power delivery Switchable attenuation with signal-dependent auto-configuration Integrated white LED headlight to illuminate circuit under test Quick action scope control button for RUN/STOP, auto scale, print, and save functions Multiple tip options: differential browser tips, InfiniiMode solder-in tips, and InfiniiMode socketed tips (qty 2 each included)

Compatibility & Integration The N2751A operates with Keysight InfiniiVision and Infiniium Series oscilloscopes featuring AutoProbe interface. Specifically compatible with Infiniium 9000A/H Series (software version 4.2 or higher) and Infiniium S Series (software version 5.0 or higher). Note: Infiniium 80000 Series requires InfiniiMax probes instead.

N2751A Characteristics / Specifications

PARAMETER	VALUE
Model	N2751A
Instrument Type	InfiniiMode differential active probe
Probe Bandwidth Minus 3 Db	3.5 GHz
Rise Time Probe Only 10 To	100 ps
System Bandwidth With 2.5 Ghz Scope	2.5 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: 3.5 GHz
Rise Time	Probe Only 10 To 90: 100 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 N2751A column.

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	
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PARAMETER	VALUE
Model	N2751A
Instrument Type	InfiniiMode differential active probe
Probe Bandwidth Minus 3 Db	3.5 GHz
Rise Time Probe Only 10 To 90	100 ps
System Bandwidth With 2.5 Ghz Scope	2.5 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 N2751A column.

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.