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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2853A

HP Agilent Keysight N2853A High Impedance Passive Probe 10:1 350 MHz 2 m The Keysight N2853A is a 10:1 high-impedance passive probe with a 2 m cable. OEM N28xxA/B data sheet 5990-7111EN and N2841/2/3A and N2853A user's guide N2840-97003 list 350 MHz (minus 3 dB) bandwidth, 1 ns rise time (10 to 90 percent), 10 MOhm // 11 pF, 5 to 30 pF compensation, 150 Vrms CAT II / 300 Vrms mains-isolated (data sheet also 300 Vrms or less than 400 Vpk CAT II), probe ID, 2 m cable, IEC 61010-031 safety, operating 0 C to 50 C (user's guide) or 0 to 55 C on N284xA family in the data sheet, humidity 80 percent RH non-condensing, and altitude 2000 m operating / 15000 m non-operating. The Keysight N2853A is a 10:1 high-impedance passive probe with a 2 m cable. OEM N28xxA/B data sheet 5990-7111EN and N2841/2/3A and N2853A user's guide N2840-97003 list 350 MHz (minus 3 dB) bandwidth, 1 ns rise time (10 to 90 percent), 10 MOhm // 11 pF, 5 to 30 pF compensation, 150 Vrms CAT II / 300 Vrms mains-isolated (data sheet also 300 Vrms or less than 400 Vpk CAT II), probe ID, 2 m cable, IEC 61010-031 safety, operating 0 C to 50 C (user's guide) or 0 to 55 C on N284xA family in the data sheet, humidity 80 percent RH non-condensing, and altitude 2000 m operating / 15000 m non-operating. Extended-reach 350 MHz 10:1 probing on InfiniiVision and Infiniium 1 MOhm BNC inputs when a 2 m cable is required.



MODEL

**Agilent / Keysight
N2853A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2853A

LISTING

<https://aumictechlabs.com/products/n2853a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N2853A is a 10:1 passive probe engineered for precise signal acquisition across DC to 350 MHz applications. Built for engineers and technicians requiring reliable measurements in circuit design, debugging, and validation workflows, the N2853A delivers a 1 ns calculated rise time and accommodates input voltages up to 300 VRMS CAT II. Its 10 M Ω input impedance shunted by 11 pF provides minimal loading on circuits under test, while dual-range frequency compensation - adjustable for both low and high-frequency performance - ensures signal fidelity across demanding measurement scenarios.

Technical Specifications
Bandwidth: DC to 350 MHz (-3 dB)
Attenuation Ratio: 10:1
Input Impedance: 10 M Ω // 11 pF (10 M Ω input resistance when terminated into 1 M Ω oscilloscope input)
Input Capacitance Compensation Range: 5 – 30 pF
Calculated Rise Time: 1 ns
Maximum Input Voltage: 300 VRMS CAT II; 300 V mains isolated
Cable Length Options: 1.2 m or 2 m
Probe ID Capability: Yes

Key Features
Adjustable low-frequency and high-frequency compensation for optimized signal conditioning
Retractable hook design for flexible connection methods
Complete accessory kit: adjustment tool, insulation cap, IC insulation cap, colored identification tags, multiple probe tips, ground spring, and alligator ground lead
Minimal circuit loading via high input impedance

Typical Applications
The N2853A serves digital and analog circuit verification, embedded system debugging, power supply testing, and general-purpose signal observation where 350 MHz bandwidth and moderate attenuation meet measurement requirements.

Compatibility & Integration
Designed for Keysight InfiniiVision and Infiniium Series oscilloscopes with 1 M Ω input impedance. Effective operation requires oscilloscope input capacitance between 5 – 30 pF. The probe accommodates both standard 1 M Ω and alternative input impedance configurations within the specified capacitance window.

N2853A Characteristics / Specifications

PARAMETER	VALUE
Model	N2853A
Instrument Type	High impedance passive oscilloscope probe
Bandwidth	350 MHz (minus 3 dB)
Attenuation Ratio	10:1
Rise Time	1 ns (10 to 90 percent)
Input Resistance	10 MOhm when terminated into 1 MOhm
Input Capacitance	11 pF
Compensation Range	5 to 30 pF
Maximum Rated Input User Guide	150 Vrms CAT II (300 Vrms mains isolated)
Maximum Rated Input Data Sheet	300 Vrms (or less than 400 Vpk) mains isolated and CAT II
Probe Id	Yes
Cable Length	2 m
Host Input	1 MOhm shunted by 5 to 30 pF
Safety	IEC 61010-031:2015/AMD1:2018; CAN/CSA-C22.2 No. 61010-031; ANSI/UL 61010-031 Ed. 2 plus AMD 1:2020
Operating Temperature User Guide	0 C to plus 50 C
Storage Temperature User Guide	0 C to plus 50 C
Humidity	80 percent RH non-condensing
Operating Altitude	2000 m (6561 ft)
Nonoperating Altitude	15000 m (49212 ft)
Pollution Degree	2
Accessory Kit	N2856A (hook N2858A, tips N2859A, ground lead N2857A 12 cm, BNC 1250-3978)
Literature	Keysight 5990-7111EN June 25, 2019; user's guide N2840-97003
Manufacturer	HP Agilent Keysight
Family	N2840A/41A/42A/43A/53A high-impedance passive probes

PARAMETER	VALUE
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	handheld BNC passive probe 2 m
Warmup	at least 20 minutes before testing per user's guide
Attenuation	Ratio: 10:1
Storage temperature	User Guide: 0 C to plus 50 C
Operating temperature	User Guide: 0 C to plus 50 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	User Guide: 0 C to plus 50 C
Operating temperature	User Guide: 0 C to plus 50 C
Operating Temperature	User Guide: 0 C to plus 50 C
Humidity	80 percent RH non-condensing
Operating Temperature User Guide	0 C to plus 50 C
Storage Temperature User Guide	0 C to plus 50 C
Operating Altitude	2000 m (6561 ft)
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Literature	Keysight 5990-7111EN June 25, 2019; user's guide N2840-97003
Manufacturer	HP Agilent Keysight
Family	N2840A/41A/42A/43A/53A high-impedance passive probes
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	handheld BNC passive probe 2 m
Warmup	at least 20 minutes before testing per user's guide Notes From Keysight N28xxA/B Passive Probes data sheet 5990-7111EN and N2841/2/3A and N2853A High-Impedance Passive Probes User's Guide N2840-97003 (350 MHz, 1 ns, 10 MOhm // 11 pF, 5 to 30 pF, 2 m, probe ID). User's guide CAT is 150 Vrms CAT II / 300 Vrms mains isolated; data sheet lists 300 Vrms (or less than 400 Vpk) CAT II. Follow the derating curve; do not exceed the host oscilloscope input rating.

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	N2853A
Instrument Type	High impedance passive oscilloscope probe
Bandwidth	350 MHz (minus 3 dB)
Attenuation Ratio	10:1
Rise Time	1 ns (10 to 90 percent)
Input Resistance	10 MOhm when terminated into 1 MOhm
Input Capacitance	11 pF
Compensation Range	5 to 30 pF
Maximum Rated Input User Guide	150 Vrms CAT II (300 Vrms mains isolated)
Maximum Rated Input Data Sheet	300 Vrms (or less than 400 Vpk) mains isolated and CAT II
Probe Id	Yes
Cable Length	2 m
Host Input	1 MOhm shunted by 5 to 30 pF
Safety	IEC 61010-031:2015/AMD1:2018; CAN/CSA-C22.2 No. 61010-031; ANSI/UL 61010-031 Ed. 2 plus AMD 1:2020
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Pollution Degree	2
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Literature	Keysight 5990-7111EN June 25, 2019; user's guide N2840-97003
Manufacturer	HP Agilent Keysight
Family	N2840A/41A/42A/43A/53A high-impedance passive probes
Brand Lineage	Hewlett Packard Agilent Keysight

PARAMETER	VALUE
Form Factor	handheld BNC passive probe 2 m
Warmup	at least 20 minutes before testing per user's guide

Notes

From Keysight N28xxA/B Passive Probes data sheet 5990-7111EN and N2841/2/3A and N2853A High-Impedance Passive Probes User's Guide N2840-97003 (350 MHz, 1 ns, 10 MΩ // 11 pF, 5 to 30 pF, 2 m, probe ID). User's guide CAT is 150 V_{rms} CAT II / 300 V_{rms} mains isolated; data sheet lists 300 V_{rms} (or less than 400 V_{pk}) CAT II. Follow the derating curve; do not exceed the host oscilloscope input rating.

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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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.