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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2840A

HP Agilent Keysight N2840A Passive Probe 50 MHz 10:1 The Keysight N2840A is a frequency-tuned 10:1 passive probe with 50 MHz bandwidth and 10 MOhm input resistance when terminated into a 1 MOhm oscilloscope. OEM N28xxA/B Passive Probes data sheet 5990-7111EN lists 7 ns rise time and compatibility with InfiniiVision and Infiniium 1 MOhm BNC inputs. General-purpose low-frequency probing on Keysight 1 MOhm oscilloscopes. Frequency-tuned response for Keysight scopes The Keysight N2840A is a frequency-tuned 10:1 passive probe with 50 MHz bandwidth and 10 MOhm input resistance when terminated into a 1 MOhm oscilloscope. OEM N28xxA/B Passive Probes data sheet 5990-7111EN lists 7 ns rise time and compatibility with InfiniiVision and Infiniium 1 MOhm BNC inputs. General-purpose low-frequency probing on Keysight 1 MOhm oscilloscopes. Frequency-tuned response for Keysight scopes N2856A accessory kit covers standard tips and grounds



MODEL

**Agilent / Keysight
N2840A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2840A

LISTING

<https://aumictechlabs.com/products/n2840a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N2840A is a passive general-purpose probe designed for oscilloscope measurements with a 10:1 attenuation ratio and DC to 50 MHz bandwidth. It delivers 10 MΩ input resistance with 11 pF input capacitance, minimizing loading effects on the circuit under test. The probe includes adjustable low-frequency and high-frequency compensation (5–30 pF range) to

ensure accurate signal reproduction across its operating band. Rise time is less than 7 ns, and maximum input voltage rating is 300 VRMS CAT II or >400 Vpk CAT I and CAT II. The N2840A connects via BNC connector to Keysight InfiniiVision and Infiniium Series oscilloscopes with 1 M Ω input impedance. A 1.2 meter cable length accommodates mid-range bench setups. The probe ships with a retractable hook, adjustment tool, insulation cap, IC insulation cap, colored identification tags, probe tips, ground spring, and alligator ground lead. Probe ID capability is not supported. Optional accessories include PCB socket adapter (0960-2922) and dual-lead adapter (0960-2923).

Technical Specifications
Bandwidth: DC to 50 MHz (-3 dB)
Attenuation: 10:1
Input Impedance: 10 M Ω // 11 pF
Input Resistance: 10 M Ω (when terminated into 1 M Ω scope input)
Input Capacitance: 11 pF (//)
Compensation Range: 5–30 pF
Rise Time: 400 Vpk CAT I and CAT II
Cable Length: 1.2 meters

Key Features
Adjustable low-frequency and high-frequency compensation for accurate amplitude and timing measurements
High input resistance minimizes circuit loading
BNC connector for direct oscilloscope integration
Comprehensive accessory set included: retractable hook, adjustment tool, insulation caps, probe tips, ground spring, alligator ground lead, and identification tags

Typical Applications
General-purpose analog signal measurements
DC and low-frequency circuit analysis
Probe-based measurements on logic and mixed-signal circuits

Compatibility & Integration
The N2840A is compatible with Keysight InfiniiVision and Infiniium Series oscilloscopes featuring 1 M Ω input impedance shunted by 5–30 pF input capacitance. Optimal performance is achieved with scope inputs calibrated to 1 M Ω // 11 pF. Optional PCB socket adapter and dual-lead adapter are available for expanded measurement configurations.

N2840A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Passive probe
Bandwidth	50 MHz (-3 dB)
Rise Time	7 ns (10 to 90 percent)
Attenuation Ratio	10:1
Input Resistance	10 MOhm when terminated into 1 MOhm
Input Capacitance Class	per N2840A family table on 5990-7111EN
Compensation Range Class	matched to Keysight 1 MOhm inputs
Max Input Voltage Class	CAT-rated passive probe class per OEM sheet
Scope Input Required	1 MOhm BNC
Compatible Scope Families	InfiniiVision and Infiniium with 1 MOhm input
Operating Temperature	0 to plus 50 C (N2840A/41A/42A/43A class)
Storage Temperature	-40 to plus 70 C (N2840A/41A/42A/43A class)
Humidity Class	80 percent RH non-condensing class
Altitude Class	indoor use only class
Accessory Kit	N2856A passive probe accessory kit
Accessory Kit Contents Class	Retractable hook adjustment tools insulating caps IC cap ID tags probe tips ground spring BNC adapter ground lead 12 cm
Series Family	Keysight N284xA passive probes
Literature	Keysight 5990-7111EN
Probe Head Form Factor	Compact passive probe head
Identification Tags Colors	green yellow purple pink 2 each in N2856A
Ground Lead Length In Kit	12 cm
Probe Tips In Kit	included in N2856A
Attenuation	Ratio: 10:1
Humidity	Class: 80 percent RH non-condensing class

N2840A Specifications

PARAMETER	VALUE
Applications	General-purpose low-frequency probing on Keysight 1 MOhm oscilloscopes.
N2856A accessory kit covers standard tips and grounds	BNC 1 MOhm scope interface
Technical Specifications	Instrument Type: Passive probe

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to plus 70 C (N2840A/41A/42A/43A class)
Operating temperature	0 to plus 50 C (N2840A/41A/42A/43A class)
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Altitude Class	indoor use only class
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Identification Tags Colors	green yellow purple pink 2 each in N2856A
Ground Lead Length In Kit	12 cm
Probe Tips In Kit	included in N2856A Notes From Keysight N28xxA/B Passive Probes data sheet 5990-7111EN N2840A column. Input capacitance and exact max-voltage CAT rows should be confirmed on the printed table for the specific revision if not transcribed here in full.

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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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
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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.