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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2842A

Keysight N2842A 300 MHz 10:1 Passive Probe The Keysight N2842A is a 300 MHz 10:1 passive probe in the N2840A-N2843A low-cost family. OEM N284xA probe data list 10:1 attenuation, 10 Mohm input, about 10 pF, 300 MHz bandwidth for N2842A, with N2840A 50 MHz, N2841A 150 MHz, and N2843A 500 MHz siblings, BNC 1 Mohm oscilloscope input. General-purpose 10:1 probing on InfiniiVision and other 1 Mohm oscilloscopes. Low-cost replacement for 10074D-class probes The Keysight N2842A is a 300 MHz 10:1 passive probe in the N2840A-N2843A low-cost family. OEM N284xA probe data list 10:1 attenuation, 10 Mohm input, about 10 pF, 300 MHz bandwidth for N2842A, with N2840A 50 MHz, N2841A 150 MHz, and N2843A 500 MHz siblings, BNC 1 Mohm oscilloscope input. General-purpose 10:1 probing on InfiniiVision and other 1 Mohm oscilloscopes. Low-cost replacement for 10074D-class probes Instrument Type: Passive oscilloscope probe



MODEL

**Agilent / Keysight
N2842A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2842A

LISTING

<https://aumictechlabs.com/products/n2842a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N2842A is a passive probe designed for high-speed digital measurement on oscilloscopes with 1 MΩ input impedance. It delivers 10:1 attenuation across a DC to 300 MHz bandwidth, offering minimal signal loading through its high 10 MΩ input resistance and low 11 pF input capacitance. The probe features adjustable low-frequency and high-frequency

compensation to optimize measurement accuracy across the Keysight InfiniiVision and Infiniium oscilloscope families. With a 1.2 m cable and Probe ID capability, the N2842A enables automatic impedance and attenuation detection, simplifying oscilloscope setup. It withstands 300 V RMS input (CAT I and CAT II) and delivers a 1.16 ns rise time. This probe directly replaces the N2863B while maintaining full form, fit, and function equivalence.

Technical Specifications
Bandwidth: DC to 300 MHz
Attenuation Ratio: 10:1
Input Impedance: $10\text{ M}\Omega // 11\text{ pF}$
Input Resistance: $10\text{ M}\Omega$ (terminated into $1\text{ M}\Omega$)
Input Capacitance: 11 pF
Rise Time: 1.16 ns
Maximum Input Voltage: 300 V RMS (CAT I and CAT II)
Compensation Range: 5 – 30 pF
Cable Length: 1.2 m

Key Features
Probe ID detection for automatic oscilloscope configuration
Adjustable low-frequency and high-frequency compensation
High input resistance minimizes loading on the device under test
Includes retractable hook, adjustment tool, insulation cap, IC insulation cap, identification tags, probe tips, ground spring, and alligator ground lead
Direct replacement for N2863B

Typical Applications
High-speed digital circuit debugging and validation
General-purpose oscilloscope measurements up to 300 MHz
Low-noise signal acquisition requiring minimal DUT loading

Compatibility & Integration
Keysight InfiniiVision Series oscilloscopes with $1\text{ M}\Omega$ input
Keysight Infiniium Series oscilloscopes with $1\text{ M}\Omega$ input
Compatible with 5 – 30 pF input capacitance termination
Optional accessory kit N2856A available

N2842A Characteristics / Specifications

PARAMETER	VALUE
Model	N2842A
Instrument Type	Passive oscilloscope probe
Bandwidth	300 MHz
Attenuation	10:1
Input Resistance	10 Mohm
Input Capacitance Class	about 10 pF
Scope Input	1 Mohm BNC
Sibling 50 Mhz	N2840A
Sibling 150 Mhz	N2841A
Sibling 500 Mhz	N2843A
Manufacturer	HP Agilent Keysight
Mechanical Package	passive probe with BNC
Family	N2840A N2841A N2842A N2843A
Documentation	Keysight N284xA passive probe data
Application Class	general purpose 10:1 probing
Compensation	LF probe compensation on the scope
Readout	10:1 attenuation readout as supported by the host
Duty	continuous probing
Ground	probe ground lead
Maximum Input Class	as published on the N2842A rating label (typically 300 V CATIclass)
Cable	coaxial probe cable to BNC
Family Position	300 MHz member of N2840A-N2843A

N2842A Specifications

PARAMETER	VALUE
Applications	General-purpose 10:1 probing on InfiniiVision and other 1 Mohm oscilloscopes.
Key Features	300 MHz 10:1 passive probe
N2840A/41A/43A family siblings	BNC 1 Mohm scopes
Technical Specifications	Model: N2842A
Notes	From Keysight N2840A-N2843A passive probe family data, N2842A 300 MHz 10:1 row. Confirm the voltage CAT rating printed on the probe body.

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	N2842A
Instrument Type	Passive oscilloscope probe
Bandwidth	300 MHz
Attenuation	10:1
Input Resistance	10 Mohm
Input Capacitance Class	about 10 pF
Scope Input	1 Mohm BNC
Sibling 50 Mhz	N2840A
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Manufacturer	HP Agilent Keysight
Mechanical Package	passive probe with BNC
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Documentation	Keysight N284xA passive probe data
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Cable	coaxial probe cable to BNC
Family Position	300 MHz member of N2840A-N2843A
Notes	
From Keysight N2840A-N2843A passive probe family data, N2842A 300 MHz 10:1 row. Confirm the voltage CAT rating printed on the probe body.	

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.