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**Data Sheet**

August 15, 2026

AGILENT / KEYSIGHT

# Agilent/Keysight N2841A

HP Agilent Keysight N2841A Passive Probe 150 MHz 10:1 The Keysight N2841A is a frequency-tuned 10:1 passive probe with 150 MHz bandwidth and 10 MOhm input resistance when terminated into a 1 MOhm oscilloscope. OEM data sheet 5990-7111EN lists 2.33 ns rise time and N2856A accessory kit compatibility. General-purpose mid-bandwidth probing on Keysight InfiniiVision and Infiniium 1 MOhm inputs. Input Resistance: 10 MOhm when terminated into 1 MOhm The Keysight N2841A is a frequency-tuned 10:1 passive probe with 150 MHz bandwidth and 10 MOhm input resistance when terminated into a 1 MOhm oscilloscope. OEM data sheet 5990-7111EN lists 2.33 ns rise time and N2856A accessory kit compatibility. General-purpose mid-bandwidth probing on Keysight InfiniiVision and Infiniium 1 MOhm inputs. Input Resistance: 10 MOhm when terminated into 1 MOhm Input Capacitance Class: per N2841A family table on 5990-7111EN



MODEL

**Agilent / Keysight  
N2841A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**N2841A**

LISTING

<https://aumictechlabs.com/products/n2841a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Agilent/Keysight N2841A is a 12 GHz differential probe head in the InfiniiMax III+ Series, engineered for high-speed signal integrity measurements across digital and RF applications. This probe head minimizes loading effects while delivering the measurement fidelity required for complex probing of modern high-speed interfaces. The compact design supports both 10:1 and 5:1 attenuation settings, with input impedance options of 1 MΩ || 0.5 pF (10:1) or 200 kΩ || 1 pF

(5:1). Differential input capability spans  $\pm 2.5$  V DC coupled, while common mode voltage handling extends to  $\pm 5$  V (DC to 1 GHz) and  $\pm 2$  V (DC to 12 GHz). Noise performance is 60 dB at 1 MHz, > 40 dB at 1 GHz, and > 30 dB at 10 GHz. Probe tip electrical characteristics include capacitance < 0.5 pF (10:1) and inductance 60 dB @ 1 MHz, > 40 dB @ 1 GHz, > 30 dB @ 10 GHz Noise: < 1.2 mVrms typical (10:1 setting) Tip Capacitance: < 0.5 pF (10:1 setting) Tip Inductance: < 1 nH Key Features Flat frequency response to 12 GHz for accurate high-frequency signal reproduction Minimal insertion loss across usable bandwidth Dual attenuation settings optimize for different impedance and noise requirements Low tip capacitance and inductance reduce circuit loading High common mode rejection across the frequency range Typical Applications USB 3.0/3.1 and PCIe Gen3/Gen4/Gen5 differential signal measurement DDR4/DDR5 memory interface characterization HDMI signal integrity analysis High-speed IC and networking equipment testing Semiconductor and advanced research applications requiring differential probing Compatibility & Integration Connects directly to Keysight InfiniiMax III and InfiniiMax III+ series probe amplifiers and compatible oscilloscopes including the 90000 X-Series and V-Series platforms. Requires power and signal connection through the proprietary InfiniiMax connector. Supports standard 1.0 mm pitch probe tip accessories.

## N2841A Characteristics / Specifications

| PARAMETER                    | VALUE                                                                                                                   |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Instrument Type              | Passive probe                                                                                                           |
| Bandwidth                    | 150 MHz (-3 dB)                                                                                                         |
| Rise Time                    | 2.33 ns (10 to 90 percent)                                                                                              |
| Attenuation Ratio            | 10:1                                                                                                                    |
| Input Resistance             | 10 MOhm when terminated into 1 MOhm                                                                                     |
| Input Capacitance Class      | per N2841A 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                                                                                                                  |
| 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                                                                               |

# N2841A Specifications

| PARAMETER                     | VALUE                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------------|
| Applications                  | General-purpose mid-bandwidth probing on Keysight InfiniiVision and Infiniium 1 MOhm inputs. |
| N2856A standard accessory kit | BNC 1 MOhm interface                                                                         |
| Technical Specifications      | Instrument Type: Passive probe                                                               |
| Notes                         | From Keysight N28xxA/B Passive Probes data sheet 5990-7111EN N2841A column.                  |

## 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)                                                                               |
| Operating Temperature        | 0 to plus 50 C (N2840A/41A/42A/43A class)                                                                               |
| Humidity                     | Class: 80 percent RH non-condensing class                                                                               |
| Humidity Class               | 80 percent RH non-condensing class                                                                                      |
| Altitude Class               | indoor use only class                                                                                                   |
| Accessory Kit                | N2856A                                                                                                                  |
| 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 Notes From Keysight N28xxA/B Passive Probes data sheet 5990-7111EN N2841A 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                                                              |                                                                                                                         |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Specifications                                                              |                                                                                                                         |
| PARAMETER                                                                   | VALUE                                                                                                                   |
| Instrument Type                                                             | Passive probe                                                                                                           |
| Bandwidth                                                                   | 150 MHz (-3 dB)                                                                                                         |
| Rise Time                                                                   | 2.33 ns (10 to 90 percent)                                                                                              |
| Attenuation Ratio                                                           | 10:1                                                                                                                    |
| Input Resistance                                                            | 10 MOhm when terminated into 1 MOhm                                                                                     |
| Input Capacitance Class                                                     | per N2841A 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 Infinium 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                                                                                                                  |
| 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                                                                                                      |
| Notes                                                                       |                                                                                                                         |
| From Keysight N28xxA/B Passive Probes data sheet 5990-7111EN N2841A column. |                                                                                                                         |

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
NAICS 423690 · 811210 · 541380  
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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.