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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N7024A Power Rail Probe, 6 GHz

Output Termination: 50 ohm oscilloscope input Rise Time 10 To 90 Main: 73 ps ($\text{tr} = 0.435/\text{bandwidth}$ in 5992-0141) Maximum Input Voltage: plus or minus 15 V peak input (data-sheet N7024A table) Scope Interface: AutoProbeCompatible Scopes: Infiniium S-Series, V-Series, and Z-Series SParameter Store: unique S-parameters stored in each N7024A for maximum accuracy Rise Time 10 To 90 Main: 73 ps ($\text{tr} = 0.435/\text{bandwidth}$ in 5992-0141) Maximum Input Voltage: plus or minus 15 V peak input (data-sheet N7024A table) Scope Interface: AutoProbeCompatible Scopes: Infiniium S-Series, V-Series, and Z-Series SParameter Store: unique S-parameters stored in each N7024A for maximum accuracy Literature: Keysight 5992-0141EN and N7020-97005 user's guide



MODEL Agilent / Keysight N7024A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU N7024A	LISTING https://aumictechlabs.com/products/n7024a-3/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N7024A power rail probe is engineered to provide high-fidelity measurements of power rails in electronic systems. Its high bandwidth ensures accurate capture of transient events and high-frequency noise, while its low noise floor minimizes measurement uncertainty. The probe's wide dynamic range allows for the measurement of both small voltage variations and large voltage swings. With its excellent DC accuracy, the N7024A enables precise

characterization of power rail behavior, facilitating the identification and mitigation of power integrity issues.

N7024A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Single-ended power rail probe
Series Family	Keysight N7020A / N7024A power rail probes
Probe Bandwidth Main Cable	6 GHz (minus 3 dB) with N7022A
Probe Bandwidth N7033A Browser	5 GHz with N7022A
Probe Bandwidth Ground Spring	350 MHz
Probe Bandwidth N7032A Browser	4 GHz with N7022A
Attenuation Ratio	1.3:1
Offset Range	plus or minus 15.25 V
Input Impedance At Dc	50 kOhm plus or minus 2 percent
Active Signal Range	plus or minus 0.6 V (plus or minus 1.2 Vpp)
Probe Plus Scope Noise	1.3 times the noise of the connected oscilloscope
Output Termination	50 ohm oscilloscope input
Probe Type	single-ended
Rise Time 10 To 90 Main	73 ps (tr = 0.435/bandwidth in 5992-0141)
Rise Time 10 To 90 N7033A	87 ps
Maximum Input Voltage	plus or minus 15 V peak input (data-sheet N7024A table)
Scope Interface	AutoProbe1Compatible Scopes: Infiniium S-Series, V-Series, and Z-Series SParameter Store: unique S-parameters stored in each N7024A for maximum accuracy
Literature	Keysight 5992-0141EN and N7020-97005 user's guide
Measurement Class	PARD and high-speed rail transients
Offset Versus N7020A	plus or minus 15 V class versus plus or minus 24 V on N7020A
Bandwidth	Main Cable: 6 GHz (minus 3 dB) with N7022A
Rise Time	10 To 90 Main: 73 ps (tr = 0.435/bandwidth in 5992-0141)
Attenuation	Ratio: 1.3:1

N7024A Specifications

PARAMETER	VALUE
Agilent Keysight N7024A Power Rail Probe 6 GHz	Overview
Applications	High-speed power-integrity on Infiniium S/V/Z-Series where ultra-fast switching currents dominate.
Key Features	6 GHz bandwidth versus 2 GHz on N7020A
Plus or minus 15.25 V offset	50 kOhm DC loading
Technical Specifications	Instrument Type: Single-ended power rail probe
Notes	Numeric rows from Keysight 5992-0141EN N7024A characteristics table and N7020A & N7024A Power Rail Probes User's Guide N7020-97005.

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	
Technical Specifications	
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Probe Bandwidth Main Cable	6 GHz (minus 3 dB) with N7022A
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Probe Plus Scope Noise	1.3 times the noise of the connected oscilloscope
Output Termination	50 ohm oscilloscope input
Probe Type	single-ended
Rise Time 10 To 90 Main	73 ps (tr = 0.435/bandwidth in 5992-0141)
Rise Time 10 To 90 N7033A	87 ps
Maximum Input Voltage	plus or minus 15 V peak input (data-sheet N7024A table)
Scope Interface	AutoProbe I
Compatible Scopes	Infiniium S-Series, V-Series, and Z-Series
S Parameter Store	unique S-parameters stored in each N7024A for maximum accuracy
Literature	Keysight 5992-0141EN and N7020-97005 user's guide
Measurement Class	PARD and high-speed rail transients
Offset Versus N7020A	plus or minus 15 V class versus plus or minus 24 V on N7020A
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Measurement Class	PARD and high-speed rail transients
Offset Versus N7020A	plus or minus 15 V class versus plus or minus 24 V on N7020A

Notes

Numeric rows from Keysight 5992-0141EN N7024A characteristics table and N7020A & N7024A Power Rail Probes User's Guide N7020-97005.

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.