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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N2790A High-Voltage Differential Probe, 100 MHz

Keysight / Agilent N2790A High-Voltage Differential Probe, 100 MHz The N2790A is a 100 MHz high-voltage differential probe with AutoProbe interface for Infiniium / InfiniiVision oscilloscopes. User-selectable 50:1 or 500:1 attenuation for power electronics and high-voltage floating measurements. The N2790A is a 100 MHz high-voltage differential probe with AutoProbe interface for Infiniium / InfiniiVision oscilloscopes. User-selectable 50:1 or 500:1 attenuation for power electronics and high-voltage floating measurements.



MODEL

**Keysight / Agilent
N2790A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2790A

LISTING

<https://aumictechlabs.com/products/n2790a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N2790A is a 100 MHz high-voltage differential probe engineered to measure differential signals safely in high-voltage environments where neither measurement point is at ground potential. It enables standard earth-grounded oscilloscopes to capture floating differential measurements across power electronics, automotive systems, and industrial motor drives without compromising signal integrity or operator safety. Technical Specifications Bandwidth: ≥ 100 MHz Maximum Differential Operating Voltage: $\pm 1,400$ VDC + peak AC at 500:1 attenuation; ± 140 V at 50:1 attenuation Maximum Common Mode Voltage: 1,000 V Common Mode Rejection Ratio: > 50 dB at 1 MHz Attenuation Settings: User-selectable 50:1 or 500:1 Rise Time: ≤ 3.5 ns Input

Resistance: 8 M Ω Input Capacitance: 3.5 pF Cable Length: 70 cm Operating Temperature Range: -10 to +50°C (-40 to +85°C with N7013A/N7014A extension kit)Key Features Overrange indicator alerts when probe input exceeds dynamic range AutoProbe interface with oscilloscope-supplied power Safety rated to 1,000 Vrms CAT II and 600 Vrms CAT III between inputs and earth ground Supplied probe tips rated for 1,000 Vrms CAT II and 600 Vrms CAT III operation Interchangeable measurement tips: standard browser, retractable hook, and alligator clip configurationsTypical Applications Power electronics testing, automotive high-voltage measurement, industrial motor drive analysis, and floating signal acquisition in complex electrical systems.Compatibility & Integration Direct AutoProbe compatibility with Keysight InfiniiVision 3000/4000 X-Series, InfiniiVision 5000/6000/7000 (software 5.26.0001+), Infiniium S/V/Z-Series, 90000 X/Q-Series (with N5449A adapter), 8000/54830 Series (software 5.7), 9000 Series (software 2.0), and Infiniium EXR Series.

Features & description

From manufacturer datasheet

Features

• Bandwidth: 100 MHz • Rise time: 3.5 ns • Attenuation: 50:1 or 500:1 (user selectable) • Differential voltage: up to 1400 V (DC + peak AC) class • Interface: Keysight AutoProbe • Probe type: active high-voltage differential • Typical use: power electronics, motor drives, high-side gate drive

Applications

• Switching power supply / inverter floating measurements • High-voltage differential debugging to 100 MHz • AutoProbe-powered probing on Keysight scopes

N2790A Characteristics / Specifications

PARAMETER	VALUE
Model	N2790A
Manufacturer	Keysight / Agilent
Instrument Type	High-Voltage Differential Probe
Alias	N2790A; Keysight N2790A; Agilent N2790A
Bandwidth	100 MHz
Rise time	3.5 ns
Attenuation	50:1 or 500:1 (user selectable)
Max differential	1400 V DC+peak AC
Interface	AutoProbe Notes Specs from Keysight N2790A high-voltage differential probe literature. Confirm attenuation switch setting and accessory leads on the unit.
Differential voltage	up to 1400 V (DC + peak AC) class
Probe type	active high-voltage differential
Typical use	power electronics, motor drives, high-side gate drive

N2790A Specifications

PARAMETER	VALUE
Key Features	- Bandwidth: 100 MHz
Technical Specifications	Model: N2790A
Notes	Specs from Keysight N2790A high-voltage differential probe literature. Confirm attenuation switch setting and accessory leads on the unit.

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
Model	N2790A
Manufacturer	Keysight / Agilent
Instrument Type	High-Voltage Differential Probe
Alias	N2790A; Keysight N2790A; Agilent N2790A

Specifications

PARAMETER	VALUE
Bandwidth	100 MHz
Rise time	3.5 ns
Attenuation	50:1 / 500:1
Max differential	1400 V DC+peak AC
Interface	AutoProbe

Notes

Specs from Keysight N2790A high-voltage differential probe literature. Confirm attenuation switch setting and accessory leads on the unit.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.