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Data Sheet

August 12, 2026

LECROY

LeCroy HVD3106 High Voltage Differential Probe, 120MHz

Teledyne LeCroy HVD3106 High Voltage Differential Probe The LeCroy HVD3106 is a 1 kV-class high-voltage differential probe with 120 MHz bandwidth (2 m cable). Non-A predecessor of HVD3106A; ProBus interface. -6M long-cable variant is 80 MHz. 380–600 V class apparatus; half-bridge and inverter floating measurements within 1 kV rating. The LeCroy HVD3106 is a 1 kV-class high-voltage differential probe with 120 MHz bandwidth (2 m cable). Non-A predecessor of HVD3106A; ProBus interface. -6M long-cable variant is 80 MHz. 380–600 V class apparatus; half-bridge and inverter floating measurements within 1 kV rating.



MODEL

LeCroy HVD3106

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

HVD3106

LISTING

<https://aumictechlabs.com/products/hvd3106-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The LeCroy HVD3106 is a 120 MHz high-voltage differential probe engineered for precision measurement of differential signals in power electronics and high-voltage test environments. It delivers ± 1500 V common-mode range, exceptional CMRR across a broad frequency spectrum, and dual attenuation modes (50x / 500x) to accommodate differential voltages from 27.6 V to 1500 V. The probe integrates via ProBus interface with Teledyne LeCroy oscilloscopes, providing automatic attenuation selection and eliminating external power requirements. Technical

Specifications Bandwidth: 120 MHz Rise Time (10–90%): 2.9 ns Attenuation: 50x / 500x switchable Gain Accuracy: 1% (DC and low frequency) Input Coupling: DC Differential Voltage Range: 27.6 V (low attenuation, ± 150 V offset) to 1500 V (high attenuation, ± 1500 V offset); maximum measurable 2000 Vp-p Common-Mode Voltage: ± 1500 V (DC + peak AC) Input Impedance: $10\text{ M}\Omega \parallel 2.5\text{ pF}$ (between inputs); $5\text{ M}\Omega \parallel 5.0\text{ pF}$ (input to ground) Output Termination: $1\text{ M}\Omega$ Slew Rate: 400 V/ns maximum Safety Rating: 1 kV CAT III Maximum Input to Earth: 1000 Vrms CAT III Cable Length: 2.25 m overall; input lead 40 cm

Key Features AutoZero calibration eliminates offset drift without probe removal High offset capability across both attenuation settings ProBus power and communication eliminates standalone power supply Automatic attenuation selection synchronized to oscilloscope V/div setting

Typical Applications Power electronics characterization, motor drive analysis, high-voltage switching measurements, and differential signal monitoring in systems operating at elevated common-mode potentials.

Compatibility & Integration Works with any Teledyne LeCroy oscilloscope equipped with ProBus interface and XStream software version 7.4 or greater.

Features & description

From manufacturer datasheet

Features

- Bandwidth (probe only): 120 MHz (2 m); 80 MHz (HVD3106-6M) • Rise time (10%–90%): 2.9 ns (120 MHz); 4.4 ns (-6M) • Diff. voltage (high atten.): 1500 V (DC + Peak AC) • Diff. voltage (low atten.): 27.6 V (DC + Peak AC) • CMRR test limits @ 23 °C: 80 dB @ 50 Hz; 60 dB @ 1 MHz • Attenuation: 50× / 500× class • Interface: ProBus • Cable: ~2 m standard; 6 m optional

HVD3106 Characteristics / Specifications

PARAMETER	VALUE
Model	HVD3106
Manufacturer	Teledyne LeCroy
Instrument Type	High Voltage Differential Probe
Alias	HVD3106; LeCroy HVD3106 Electrical
Bandwidth	120 MHz
Rise time	2.9 ns
Diff. high atten.	1500 V (DC+peak AC)
CMRR	80 dB @ 50 Hz; 60 dB @ 1 MHz Notes Specs from Teledyne LeCroy HVD310x operator manual / datasheets. ConfirmAvs non-A revision and cable length on the unit.
Bandwidth (probe only)	120 MHz (2 m); 80 MHz (HVD3106-6M)
Rise time (10%–90%)	2.9 ns (120 MHz); 4.4 ns (-6M)
Diff. voltage (high atten.)	1500 V (DC + Peak AC)
Diff. voltage (low atten.)	27.6 V (DC + Peak AC)
CMRR test limits @ 23 °C	80 dB @ 50 Hz; 60 dB @ 1 MHz
Attenuation	50× / 500× class
Interface	ProBus
Cable	~2 m standard; 6 m optional

HVD3106 Specifications

PARAMETER	VALUE
Teledyne LeCroy HVD3106 High Voltage Differential Probe	Overview
Applications	380–600 V class apparatus; half-bridge and inverter floating measurements within 1 kV rating.
Key Features	- Bandwidth (probe only): 120 MHz (2 m); 80 MHz (HVD3106-6M)
Technical Specifications	Model: HVD3106
Electrical	Bandwidth: 120 MHz
Notes	Specs from Teledyne LeCroy HVD310x operator manual / datasheets. Confirm A vs non-A revision and cable length 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	HVD3106
Manufacturer	Teledyne LeCroy
Instrument Type	High Voltage Differential Probe
Alias	HVD3106; LeCroy HVD3106

Electrical

Electrical

PARAMETER	VALUE
Bandwidth	120 MHz
Rise time	2.9 ns
Diff. high atten.	1500 V (DC+peak AC)
CMRR	80 dB @ 50 Hz; 60 dB @ 1 MHz

Notes

Specs from Teledyne LeCroy HVD310x operator manual / datasheets. ConfirmAvs non-A revision and cable length 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.