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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 1154A

HP Agilent Keysight 1154A Differential Probe 500 MHz FET AutoProbe The Agilent 1154A isaFET-input differential probe with dc to less than 500 MHz bandwidth for Infiniium 54800-series AutoProbe oscilloscopes. OEM Infiniium 54800 Series Oscilloscope Probes, Accessories, and Options tables list probe-only risetime less than 700 ps at 10:1 and less than 875 ps at 1:1, 1 MOhm each side to ground, inputC less than 0.85 pF between inputs at 1:1 and less than 1.6 pF at 10:1, internal 10X / 1:1 / 10:1 plus external 10:1 (100:1 max), linear differential ranges from plus or minus 40 mV (10X) to plus or minus 40 V (100:1), common-mode plus or minus 4.2 V (1:1) or plus or minus 42 V (10:1 and 100:1), 42 V dc plus peak ac maximum, 50 ohm output, IEC 1010-2-31, and CMRR typically greater than 40 dB at 10 MHz. The Agilent 1154A isaFET-input differential probe with dc to less than 500 MHz bandwidth for Infiniium 54800-series AutoProbe oscilloscopes. OEM Infiniium 54800 Series Oscilloscope Probes, Accessories, and Options tables list probe-only risetime less than 700 ps at 10:1 and less than 875 ps at 1:1, 1 MOhm each side to ground, inputC less than 0.85 pF between inputs at 1:1 and less than 1.6 pF at 10:1, internal 10X / 1:1 / 10:1 plus external 10:1 (100:1 max), linear differential ranges from plus or minus 40 mV (10X) to plus or minus 40 V (100:1), common-mode plus or minus 4.2 V (1:1) or pl



MODEL

**Agilent / Keysight
1154A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1154A

LISTING

<https://aumictechlabs.com/products/1154a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 1154A is a wide-band differential active probe engineered for precision signal acquisition in demanding test environments. FET-buffered inputs in the probe head deliver high common-mode rejection and minimal circuit loading. The probe features selectable attenuation (1:1 and 10:1), user-selectable offset, and DC/AC input coupling capability, making it suitable for characterizing low-level differential signals across multiple gain configurations.

Technical Specifications

Bandwidth: DC to 500 MHz (-3 dB, probe only) Rise Time: 700 ps (10:1 attenuation) 875 ps (1:1 attenuation) Input Impedance: 1 M Ω (each side to ground) Input Capacitance: 1.6 pF (between inputs, 10:1 attenuation) 3.1 pF (between inputs, 1:1 attenuation) 3 pF (each side to ground, 10:1 attenuation) 6 pF (each side to ground, 1:1 attenuation) Common Mode Rejection Ratio (Unity Probe Gain): 80 dB @ 70 Hz 80 dB @ 100 kHz 60 dB @ 1 MHz 40 dB @ 10 MHz 14 dB @ 250 MHz Gain Settings: X1, X10, X100 (with external attenuator) LF Gain Accuracy: $\pm 2\%$ into 50 Ω load, measured at 1 kHz (X1, X10) Output Impedance: 50 Ω nominal Noise (5–1000 MHz): 6 nV/ $\sqrt{\text{Hz}}$ (1:1 attenuation, 10X gain) 10 nV/ $\sqrt{\text{Hz}}$ (1:1 attenuation, 1X gain) 60 nV/ $\sqrt{\text{Hz}}$ (10:1 attenuation, 10X gain) 115 nV/ $\sqrt{\text{Hz}}$ (10:1 attenuation, 1X gain) Maximum Input Voltage: ± 42 V single-ended (10:1 attenuation) ± 4.2 V single-ended (1:1 attenuation) ± 40 V differential (1X gain, 10:1 attenuation) ± 4 V differential (10X gain, 10:1 attenuation) ± 400 mV differential (1X gain, 1:1 attenuation) ± 40 mV differential (10X gain, 1:1 attenuation) Input Coupling: DC / AC (AC coupling via optional adapter)

Key Features Low input capacitance minimizes circuit loading and disturbance Selectable attenuation accommodates signals from millivolts to tens of volts FET buffering enables high input impedance with low noise performance User-adjustable offset for optimized display and measurement range 50 Ω output impedance for direct integration with standard test equipment

Typical Applications Differential signal characterization in high-speed digital circuits Low-noise analog measurement in precision instrumentation Power supply and regulator output monitoring Transient and noise analysis in mixed-signal designs

Features & description

From manufacturer datasheet

Built-in 10X gain and 10:1 attenuation plus plug-on 10:1 (100:1 max)

External AC coupler, 16 Hz LF cutoff User-selectable offset Supplied grabbers, SMT leads, ground wire, AC coupler, 10:1 attenuator Connector kit 01154-60004 Technical Specifications Model: 1154A
Instrument Type: FET differential oscilloscope probe Probe Bandwidth: dc to less than 500 MHz (minus 3 dB) Rise Time 10:1: less than 700 ps probe only Rise Time 1:1: less than 875 ps probe only (no external attenuator) Input Resistance: 1 MOhm each side to ground InputCBetween 1:1: less than 0.85 pF InputCBetween 10:1: less than 1.6 pF InputCTo Ground 1:1: less than 1.5 pF InputCTo Ground 10:1: less than 3 pF Gain Attenuation: internal 10X, 1:1, 10:1; external 10:1 (100:1 maximum) Linear Range 10x: less than plus or minus 40 mV Linear Range 1:1: less than plus or minus 400 mV Linear Range 10:1: less than plus or minus 4 V Linear Range 100:1: less than plus or minus 40 V Common Mode 1:1: plus or minus 4.2 V Common Mode 10:1 100:1: plus or minus 42 V Maximum Input: 42 V (dc plus peak ac) Offset 10x: 0.4 V Offset 1:1: 0.4 V Offset 10:1: 4 V Offset 100:1: 40 V Ac Coupler Lf Cutoff: 16 Hz with external adapter Output Termination: 50 ohm Cmrr: typically greater than or equal to 40 dB at 10 MHz (see 1154A CMRR graph)

1154A Characteristics / Specifications

PARAMETER	VALUE
Model	1154A
Instrument Type	FET differential oscilloscope probe
Probe Bandwidth	dc to less than 500 MHz (minus 3 dB)
Rise Time	1: less than 875 ps probe only (no external attenuator)
Input Resistance	1 MOhm each side to ground
InputCBetween	1: less than 0.85 pF
InputCTo Ground	1: less than 1.5 pF
Gain Attenuation	internal 10X, 1:1, 10:1; external 10:1 (100:1 maximum)
Linear Range 10x	less than plus or minus 40 mV
Linear Range	1: less than plus or minus 400 mV
Linear Range 1	1: less than plus or minus 40 V
Common Mode	1 100:1: plus or minus 42 V
Maximum Input	42 V (dc plus peak ac)
Offset 10x	0.4 V
Offset	1: 0.4 V
Offset 1	1: 40 V
Ac Coupler Lf Cutoff	16 Hz with external adapter
Output Termination	50 ohm
Cmrr	typically greater than or equal to 40 dB at 10 MHz (see 1154A CMRR graph)
Safety	IEC 1010-2-31
Operating Temperature	0 C to plus 55 C
Nonoperating Temperature	minus 40 C to plus 70 C
Operating Humidity	80 percent RH
Nonoperating Humidity	80 percent RH at 65 C
Operating Altitude	up to 4600 m (15000 ft)

PARAMETER	VALUE
Nonoperating Altitude	up to 15300 m (50000 ft)
Host Interface	AutoProbe on Infiniium 54800
Literature	Infiniium 54800 Series Oscilloscope Probes, Accessories, and Options
Manufacturer	HP Agilent Keysight
Related 1 Ghz Probe	1159A
Related 200 Mhz Probe	1153A
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	AutoProbe differential FET probe
Bandwidth	dc to less than 500 MHz (minus 3 dB)
Attenuation	internal 10X, 1:1, 10:1; external 10:1 (100:1 maximum)
Humidity	80 percent RH

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to plus 55 C
Operating Temperature	0 C to plus 55 C
Humidity	80 percent RH
Nonoperating Temperature	minus 40 C to plus 70 C
Operating Humidity	80 percent RH
Nonoperating Humidity	80 percent RH at 65 C
Operating Altitude	up to 4600 m (15000 ft)
Nonoperating Altitude	up to 15300 m (50000 ft)
Host Interface	AutoProbe on Infiniium 54800
Literature	Infiniium 54800 Series Oscilloscope Probes, Accessories, and Options
Manufacturer	HP Agilent Keysight
Related 1 Ghz Probe	1159A
Related 200 Mhz Probe	1153A
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	AutoProbe differential FET probe Notes From Agilent Infiniium 54800 Series Oscilloscope Probes, Accessories, and Options 1154A column (dc to less than 500 MHz, risetimes, C/R, ranges, 42 V max, 50 ohm, IEC 1010-2-31, 0 to 55 C). CMRR versus frequency is the 1154A graph in that brochure, notasingle guaranteed number at all frequencies.

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	1154A
Instrument Type	FET differential oscilloscope probe
Probe Bandwidth	dc to less than 500 MHz (minus 3 dB)
Rise Time 10:1: less than 700 ps probe only	
Rise Time 1:1: less than 875 ps probe only (no external attenuator)	
Input Resistance: 1 MOhm each side to ground	
InputCBetween 1:1: less than 0.85 pF	
InputCBetween 10:1: less than 1.6 pF	
InputCTo Ground 1:1: less than 1.5 pF	
InputCTo Ground 10:1: less than 3 pF	
Gain Attenuation: internal 10X, 1:1, 10:1; external 10:1 (100:1 maximum)	
Linear Range 10x: less than plus or minus 40 mV	
Linear Range 1:1: less than plus or minus 400 mV	
Linear Range 10:1: less than plus or minus 4 V	
Linear Range 100:1: less than plus or minus 40 V	
Common Mode 1:1: plus or minus 4.2 V	
Common Mode 10:1 100:1: plus or minus 42 V	
Maximum Input: 42 V (dc plus peak ac)	
Offset 10x: 0.4 V	
Offset 1:1: 0.4 V	
Offset 10:1: 4 V	
Offset 100:1: 40 V	
Specifications	
PARAMETER	VALUE
Ac Coupler Lf Cutoff	16 Hz with external adapter
Output Termination	50 ohm
Cmrr	typically greater than or equal to 40 dB at 10 MHz (see 1154A CMRR graph)
Safety	IEC 1010-2-31
Operating Temperature	0 C to plus 55 C
Nonoperating Temperature	minus 40 C to plus 70 C
Operating Humidity	80 percent RH
Nonoperating Humidity	80 percent RH at 65 C
Operating Altitude	up to 4600 m (15000 ft)
Nonoperating Altitude	up to 15300 m (50000 ft)

PARAMETER	VALUE
Host Interface	AutoProbe on Infiniium 54800
Literature	Infiniium 54800 Series Oscilloscope Probes, Accessories, and Options
Manufacturer	HP Agilent Keysight
Related 1 Ghz Probe	1159A
Related 200 Mhz Probe	1153A
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	AutoProbe differential FET probe

Notes

From Agilent Infiniium 54800 Series Oscilloscope Probes, Accessories, and Options 1154A column (dc to less than 500 MHz, risetimes, C/R, ranges, 42 V max, 50 ohm, IEC 1010-2-31, 0 to 55 C). CMRR versus frequency is the 1154A graph in that brochure, not a single guaranteed number at all frequencies.

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

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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.