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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 10074A

HP Agilent Keysight 10074A Passive Probe 10:1 150 MHz 1.5 m The HP 10074A is a 10:1 general-purpose passive probe for 1 MOhm oscilloscopes. OEM 10070-family user's guides (10070-92001 for theAseries; 10070-92003 for the 10074B successor) list 150 MHz system bandwidth, calculated risetime less than 2.33 ns, 10 MOhm input resistance, approximately 15 pF input capacitance, 9 to 17 pF compensation, probe readout, 1.5 m cable, and about 7 ns propagation delay. 10074B sheet 10070-92003 rates 500 V CATIImains-isolated and 300 V CAT II. The HP 10074A is a 10:1 general-purpose passive probe for 1 MOhm oscilloscopes. OEM 10070-family user's guides (10070-92001 for theAseries; 10070-92003 for the 10074B successor) list 150 MHz system bandwidth, calculated risetime less than 2.33 ns, 10 MOhm input resistance, approximately 15 pF input capacitance, 9 to 17 pF compensation, probe readout, 1.5 m cable, and about 7 ns propagation delay. 10074B sheet 10070-92003 rates 500 V CATIImains-isolated and 300 V CAT II. General-purpose 150 MHz probing on HP 54600, 54620, and later 100 MHz-class InfiniiVision 1 MOhm inputs.



MODEL

**Agilent / Keysight
10074A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

10074A

LISTING

<https://aumictechlabs.com/products/10074a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 10074A is a passive oscilloscope probe delivering 10:1 attenuation and 150 MHz bandwidth for general-purpose signal measurement. The probe combines a durable stainless steel body with hard, fracture-resistant plastic housing and a 1.5 m cable terminated in

BNC connector. It accepts input voltage up to 500 V (mains isolated) and 500 V CAT I, with selectable input impedance of 10 M Ω // 15 pF or 1 M Ω // 15 pF. Risetime performance reaches <700 ps at 10:1 attenuation. The probe features a retractable hook tip, ground bayonet with flexible lead for high-frequency work, and an alligator clip ground lead. Included color tags (orange, white, blue, green - two of each) enable probe identification. A built-in wear detector on the cable alerts users to damage. When connected to a 1 M Ω scope input, the probe presents 10 M Ω input resistance and approximately 15 pF input capacitance. Compensation range spans 6–17 pF or 9–17 pF depending on configuration.

Technical Specifications

Attenuation Ratio:	10:1
Bandwidth:	150 MHz
Input Impedance:	10 M Ω // 15 pF or 1 M Ω // 15 pF
Input Capacitance:	~15 pF
Maximum Input Voltage:	500 V (mains isolated); 500 V CAT I; 400 V CAT II
Risetime (calculated):	<700 ps
Compensation Range:	6–17 pF or 9–17 pF
Cable Length:	1.5 m
Connector:	BNC
Tip Style:	Retractable hook
Weight:	2.4 oz

Key Features

- Selectable input impedance for flexible scope compatibility
- Ground bayonet with short, flexible lead optimized for high-frequency measurements
- Alligator clip ground lead for general-purpose connections
- Built-in cable wear detector
- Four-color identification tag system
- Automatic probe attenuation configuration on compatible oscilloscopes

Typical Applications

General-purpose signal analysis in laboratory and field environments requiring 150 MHz bandwidth and voltage measurements to 500 V.

Compatibility & Integration

Designed for Keysight 300 MHz–1 GHz 6000, 7000, 8000, and 9000 series oscilloscopes. Compatible with 5000/6000/7000 Series InfiniiVision and 6000 Series 100 MHz models, as well as 54620 Series oscilloscopes. Automatic attenuation detection configures the connected scope without manual setup.

10074A Characteristics / Specifications

PARAMETER	VALUE
Model	10074A
Instrument Type	Passive oscilloscope probe
Attenuation Ratio	10:1
System Bandwidth	150 MHz
System Risetime Calculated	less than 2.33 ns
Input Resistance	10 MOhm when terminated into 1 MOhm
Input Capacitance	approximately 15 pF
Compensation Range	9 to 17 pF
Probe Readout	Yes
Cable Length	1.5 m
Propagation Delay	7 ns
Maximum InputBSeries	500 V CATImains isolated; 300 V CAT II post receptacle mains (10070-92003 10074B table)
Operating Temperature	minus 10 C to 55 C
Humidity	90 percent RH at 40 C non-condensing
Shock Tip End	400 g half sine
Shock Bnc End	50 g half sine
Altitude IndoorBSeries	4600 m (10070-92003)
Accessory Kit	5081-7690 retractable hook, identification tags, ground bayonet, IC tip, adjustment tool, ground lead
Bnc Adapter	5081-7705 not in kit
Literature	HP 10070-92001 (A series); HP 10070-92003 (10074B)
Manufacturer	HP Agilent Keysight
Successor Models	10074B then 10074D (D guide 10070-92016, 3000 m altitude, 400 Vpk CAT II)
Host Termination	1 MOhm oscilloscope input
Brand Lineage	Hewlett Packard Agilent Keysight

PARAMETER	VALUE
Form Factor	handheld BNC passive probe
Family	10070/71/73/74 A/B/D passive probes
Bandwidth	150 MHz
Attenuation	Ratio: 10:1

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Bnc Adapter	5081-7705 not in kit
Literature	HP 10070-92001 (A series); HP 10070-92003 (10074B)
Manufacturer	HP Agilent Keysight
Successor Models	10074B then 10074D (D guide 10070-92016, 3000 m altitude, 400 Vpk CAT II)
Host Termination	1 MOhm oscilloscope input
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	handheld BNC passive probe
Family	10070/71/73/74 A/B/D passive probes Notes From HP 10070A/71A/73A/74A user's guide 10070-92001 and HP 10074B characteristics table 10070-92003 (150 MHz, less than 2.33 ns, 10:1, 10 MOhm, 15 pF, 9 to 17 pF, 1.5 m / 7 ns, 500 V CAT I / 300 V CAT II). 10074D user's guide 10070-92016 updates CAT II to 400 Vpk and altitude to 3000 m; do not mix D-only ratings onto 10074A hardware without checking the faceplate.

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	
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Host Termination	1 MOhm oscilloscope input
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Family	10070/71/73/74 A/B/D passive probes

Notes

From HP 10070A/71A/73A/74A user's guide 10070-92001 and HP 10074B characteristics table 10070-92003 (150 MHz, less than 2.33 ns, 10:1, 10 MOhm, 15 pF, 9 to 17 pF, 1.5 m / 7 ns, 500 V CAT I / 300 V CAT II). 10074D user's guide 10070-92016 updates CAT II to 400 Vpk and altitude to 3000 m; do not mix D-only ratings onto 10074A hardware without checking the faceplate.

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.