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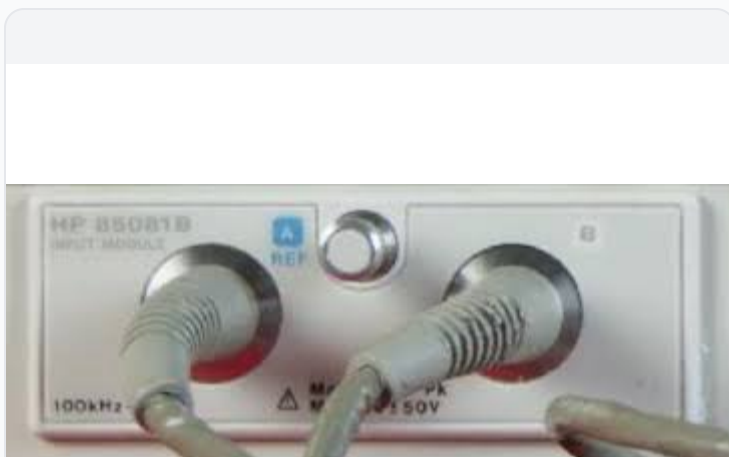
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85081A High Impedance Input Module

HP Agilent 85081A High Impedance Input Module for 8508A The HP 85081A is the high-impedance probe input module for the 8508A vector voltmeter. OEM 8508A accessory data listahigh-Z input path for probing 50 ohm and high-impedance nodes while the 8508A measures amplitude and phase from 100 kHz to 1 GHz class (8508A range 100 kHz-1 GHz / 300 kHz-2 GHz depending on option). In-circuit vector-voltmeter probing where 50 ohm termination is not acceptable. Preserves 8508A amplitude/phase measurements The HP 85081A is the high-impedance probe input module for the 8508A vector voltmeter. OEM 8508A accessory data listahigh-Z input path for probing 50 ohm and high-impedance nodes while the 8508A measures amplitude and phase from 100 kHz to 1 GHz class (8508A range 100 kHz-1 GHz / 300 kHz-2 GHz depending on option). In-circuit vector-voltmeter probing where 50 ohm termination is not acceptable. Preserves 8508A amplitude/phase measurements 100 kHz to 1 GHz class vector voltmeter host



MODEL

**Agilent / Keysight
85081A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85081A

LISTING

<https://aumictechlabs.com/products/85081a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85081A High Impedance Input Module is an accessory for the 8508A Vector Voltmeter that provides high input impedance measurement capability for precise voltage

characterization in sensitive circuits. By minimizing circuit loading, the module enables accurate measurements where disturbance to the device under test must be kept minimal. Operating from 100 kHz to 1 GHz, the 85081A forms a two-channel receiver system with the 8508A mainframe for high-frequency voltage and phase measurements across a dynamic range of 10 μ V to 1 V.

Technical Specifications

- Frequency range: 100 kHz to 1 GHz
- Measurement levels: 10 μ V to 1 V
- Maximum input: 2 VAC Peak, $\pm$ 50 VDC
- Input impedance: High impedance design
- Sensitivity: 10 μ V (narrowband measuring technique)
- Operating temperature: 0 to 55 °C (specifications warranted)

Key Features

- Two high-impedance probe inputs for direct signal connection
- Narrowband measuring technique for enhanced sensitivity and selectivity
- Direct integration with 8508A Vector Voltmeter mainframe
- Minimal circuit loading for accurate measurements in high-impedance networks

Typical Applications

- High-impedance voltage measurements in sensitive RF and analog circuits
- Phase measurement characterization at microwave frequencies
- 50-ohm Type N coaxial system measurements (with 11570A kit)
- Low-level signal detection and analysis from 100 kHz to 1 GHz

Compatibility & Integration

The 85081A connects directly to the Agilent/Keysight 8508A Vector Voltmeter and is not sold separately. It is classified as an obsolete product no longer in active production, though repair and calibration services may remain available. ESD protection measures are required during handling to prevent component damage.

85081A Characteristics / Specifications

PARAMETER	VALUE
Model	85081A
Instrument Type	High impedance input module
Host Instrument	HP 8508A vector voltmeter
Input Type	high impedance
Host Frequency Class	100 kHz to 1 GHz (8508A standard class)
Host Frequency Option Class	300 kHz to 2 GHz class 8508A options as installed
Manufacturer	HP Agilent Keysight
Mechanical Package	8508A input module
Measurement	amplitude and phase via 8508A
Termination	high-Z versus 50 ohm native 8508A inputs
Application Class	in-circuit probing
Documentation	8508A vector voltmeter accessory data 85081A
Related 8508A	two-channel vector voltmeter successor to 8405A
Probe Use	high impedance probing of RF nodes
Phase Measurement	supported through the 8508A
Amplitude Measurement	supported through the 8508A
Family	8508A input modules
Duty	continuous with 8508A
Grounding	probe ground as in the 8508A manual
Connector	8508A module interface plus probe input
Impedance Class	high-Z
Host Instrument Type	vector voltmeter

85081A Specifications

PARAMETER	VALUE
HP Agilent 85081A High Impedance Input Module for 8508A	Overview
Applications	In-circuit vector-voltmeter probing where 50 ohm termination is not acceptable.
Key Features	High-Z input for 8508A
Companion to 50 ohm 8508A inputs	100 kHz to 1 GHz class vector voltmeter host
Technical Specifications	Model: 85081A

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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Notes	
From HP 8508A vector voltmeter accessory data for 85081A high-impedance input module. Exact probe capacitance and max voltage are on the 85081A sheet matching the serial; 8508A frequency depends on mainframe options.	

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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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.