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Data Sheet

August 14, 2026

HP / AGILENT / KEYSIGHT

HP-Agilent-Keysight 70621A Preamplifier, 100 kHz to 2.9 GHz

Agilent HP 70621A MMS RF Preamplifier Module 100 kHz to 2.9 GHz The HP/Agilent 70621A is a one-slot MMS modular RF preamplifier for HP 70000 Series spectrum analyzer systems covering 100 kHz to 2.9 GHz with approximately 24 dB gain. OEM MMS module listings describe it as a low-noise high-gain front-end amplification stage ahead of the RF section. Improving noise figure and sensitivity of 70000 Series modular spectrum analyzers from 100 kHz to 2.9 GHz. Compatible with HP 70000 modular SA systems The HP/Agilent 70621A is a one-slot MMS modular RF preamplifier for HP 70000 Series spectrum analyzer systems covering 100 kHz to 2.9 GHz with approximately 24 dB gain. OEM MMS module listings describe it as a low-noise high-gain front-end amplification stage ahead of the RF section. Improving noise figure and sensitivity of 70000 Series modular spectrum analyzers from 100 kHz to 2.9 GHz. Compatible with HP 70000 modular SA systems Instrument Type: MMS RF preamplifier module



MODEL

**HP / Agilent /
Keysight 70621A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

70621A

LISTING

<https://aumictechlabs.com/products/70621a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP-Agilent-Keysight 70621A is a low-noise preamplifier module for RF and microwave spectrum analysis systems. Operating from 100 kHz to 2.9 GHz, it integrates into HP 70000 Series

mainframes as a 1/8-width module to enhance system sensitivity and reduce noise figure in front-end measurement configurations. The preamplifier delivers high-gain amplification for detection of low-level signals and includes a front-panel +28 V dc output for noise-source drive voltage. Built-in bypass switches allow preamplifier engagement or disengagement without removing the module.

Technical Specifications
Frequency Range: 100 kHz to 2.9 GHz
Noise Source Drive Voltage: +28 V dc output (front panel)
Module Configuration: 1/8-width for HP 70000 Series mainframes

Key Features
Low-noise, high-gain amplification stage for sensitivity enhancement
Reduces system noise figure for improved signal detection at threshold levels
Enables noise figure measurements when paired with spectrum analyzer systems
Integrated bypass capability via front-panel switches
Modular plug-in design with no external connections required

Typical Applications
RF spectrum analysis requiring enhanced sensitivity
Low-level signal detection in microwave measurement systems
Noise figure characterization in receiver chains
System noise performance optimization in 100 kHz to 2.9 GHz band

Compatibility & Integration
The 70621A requires HP 70900 Local Oscillator firmware version 900314 or later. It operates within the HP 70000 Series modular architecture and coordinates with HP 70600A or HP 70601A preselectors to manage input overload conditions and multiple responses. An upgrade kit may be supplied with specific configurations to meet firmware requirements.

70621A Characteristics / Specifications

PARAMETER	VALUE
Model	70621A
Instrument Type	MMS RF preamplifier module
Frequency Range	100 kHz to 2.9 GHz
Gain Class	24 dB class OEM MMS listing
Slot Occupancy	1 MMS slot
Series Family	HP 70000 modular measurement system
Host Compatibility	HP 70000 Series modular spectrum analyzers
Noise Performance Class	low-noise preamplifier class OEM description
Form Factor	MMS plug-in module
Primary Function	front-end RF amplification ahead of SA RF section
Lower Frequency Limit	100 kHz
Upper Frequency Limit	2.9 GHz
Brand Lineage	HP / Agilent / Keysight
Application Class	spectrum analyzer sensitivity enhancement
Module Width Class	single-slot MMS
Control Class	mainframe controlled modular subsystem
RF Path Class	series preamplifier in modular SA RF chain
Operating Environment Class	modular rack MMS environment
Power Class	powered by MMS mainframe
Documentation Source	OEM MMS module specification listings
Gain Architecture Class	high-gain amplification stages class OEM text
Intended Spectra	RF and lower microwave to 2.9 GHz
Calibration Path	per system calibration certificate

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/Agilent 70000 Series MMS module documentation listings for 70621A (100 kHz to 2.9 GHz, ~24 dB gain).	

Finer NF and exact gain flatness belong on the OEM module data sheet/calibration record for the installed 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.