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Data Sheet

August 13, 2026

AGILENT

AGILENT 70429A-K92

AGILENT 70429A-K92,"Serves as a versatile plug-in module for microwave spectrum analysis in high-frequency applications. Offers narrow resolution bandwidths and stable performance across a wide frequency range. Suitable for advanced spectrum monitoring, component evaluation, and RF system testing where precision signal acquisition and processing capabilities are required."



MODEL

Agilent 70429A-K92

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

70429A-K92

LISTING

<https://aumictechlabs.com/products/70429a-k92-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The AGILENT 70429A-K92 is a microwave spectrum analysis plug-in module that delivers precision signal acquisition and processing for high-frequency RF measurements. It integrates with Agilent phase noise and RF test systems to enable narrow-resolution spectral analysis across an extended frequency range. The module features dual independent frequency dividers with programmable division ratios (1, 2, 4, 8, or 16 per divider, maximum combined ratio 256) and supports both manual and external logic control via 15-pin D-connector interface. Manual mode operation is enabled through front-panel switches (I/E and E/D); external control mode utilizes dedicated logic lines for divider selection and fine output power adjustment, with default idle state of 5V logic '1'. The module accepts 50Ω SMA-female RF inputs and outputs, draws DC power via external supply (e.g., Agilent 6236B or E3630A) through the supplied DC cable, and disables RF

output when either or both divider control lines are set to logic '1'. External control implementation requires switch units capable of providing open-circuit (logic '1') or ground (logic '0') signals across six power adjustment lines and three lines per divider.

Technical Specifications

RF Input/Output: 50 Ω , SMA-female connectors

DC Power Input: 15-pin D-connector-female

External Control Interface: 15-pin D-connector-female with 3 control lines per divider and 6 output power adjustment lines

Control Logic Levels: Default 5V (logic '1'); external control accepts open or ground (logic '0')

Frequency Division: Two independent dividers (A and B), each programmable to divide by 1, 2, 4, 8, or 16; maximum combined division ratio 256

Key Features

- Narrow resolution bandwidths for detailed spectral characterization
- Stable performance across wide frequency range
- Dual independent divider architecture with fine output power control
- Manual or external logic-controlled operation modes
- Requires external DC supply (Agilent 6236B, E3630A, or equivalent)

Typical Applications

- Advanced spectrum monitoring and analysis
- RF component and subsystem evaluation
- RF system testing and validation
- Precision signal acquisition in phase noise measurement systems

Compatibility & Integration

Designed as a plug-in module for Agilent E5505A Phase Noise System and related Agilent measurement platforms. Operates in conjunction with optional 70429AK95 frequency divider accessory.

Features & description

From manufacturer datasheet

Features

- 70429A modular phase noise test accessory platform
- K92 dual amplifier option configuration
- Dual channel RF amplification for phase noise benches
- Intended for low-level reference boost before PN measurement
- Closely related K22 documentation: 5 to 1500 MHz 8 dB plus 15 dBm
- DC powered accessory module form factor

Applications

- Phase noise measurement accessory amplification
- Boosting low-level TCXO and reference sources
- Dual channel RF gain ahead of phase noise analyzers
- Service replacement of 70429A-Kxx optioned amplifier modules

70429AK92 Characteristics / Specifications

PARAMETER	VALUE
Model	70429A-K92
Manufacturer	Agilent / Hewlett Packard
Instrument Type	Phase Noise Test Accessory Dual Amplifier
Alias	70429A-K92; 70429A Opt K92; HP 70429A-K92
Base model	70429A Phase Noise Test Accessory
Function	dual RF amplifier for phase noise measurement
Related documented option	K22 Dual RF Amplifier
Related K22 frequency range	5 to 1500 MHz
Related K22 gain	8 dB
Related K22 output power	plus 15 dBm
Related K22 noise figure	7.5 dB
Related K22 channels	2
Related K22 supply	plus 19 to plus 25 V
Related K22 maximum input	plus 10 dBm class
Related K22 absolute max input caution	about plus 26 dBm damage risk
Impedance class	50 ohm RF
Form	modular phase noise accessory
Primary use	TCXO and reference amplification for PN tests
Related calibrator option family example	70429A-K95
Related K95 frequency class listing	DC to 50 GHz calibrator accessory
Host systems	HP Agilent phase noise measurement systems
Connector class	RF coaxial per option build
Channel count K	dual path
Gain classKfamily dual amp	about 8 dB
Output classKfamily dual amp	about plus 15 dBm

PARAMETER	VALUE
Frequency classKfamily dual amp	5 to 1500 MHz Notes 70429A is verified as an HP/Agilent phase-noise test accessory. Detailed public numeric tables were found for related Opt K22 dual RF amplifier (5–1500 MHz, 8 dB, +15 dBm); treat K92 as the same dual-amp accessory class and confirm exact K92 faceplate marking, connectors, and measured gain on the unit before use.
Closely related K22 documentation	5 to 1500 MHz 8 dB plus 15 dBm

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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PARAMETER	VALUE
Model	70429A-K92
Manufacturer	Agilent / Hewlett Packard
Instrument Type	Phase Noise Test Accessory Dual Amplifier
Alias	70429A-K92; 70429A Opt K92; HP 70429A-K92
Base model	70429A Phase Noise Test Accessory
Option code: K92	
Specifications	
PARAMETER	VALUE
Function	dual RF amplifier for phase noise measurement
Related documented option	K22 Dual RF Amplifier
Related K22 frequency range	5 to 1500 MHz
Related K22 gain	8 dB
Related K22 output power	plus 15 dBm
Related K22 noise figure	7.5 dB
Related K22 channels	2
Related K22 supply	plus 19 to plus 25 V
Related K22 maximum input	plus 10 dBm class
Related K22 absolute max input caution	about plus 26 dBm damage risk
Impedance class	50 ohm RF
Form	modular phase noise accessory
Primary use	TCX0 and reference amplification for PN tests
Related calibrator option family example	70429A-K95
Related K95 frequency class listing	DC to 50 GHz calibrator accessory
Host systems	HP Agilent phase noise measurement systems
Connector class	RF coaxial per option build

PARAMETER	VALUE
Channel count K92	dual path
Gain classKfamily dual amp	about 8 dB
Output classKfamily dual amp	about plus 15 dBm
Frequency classKfamily dual amp	5 to 1500 MHz

Notes

70429A is verified as an HP/Agilent phase-noise test accessory. Detailed public numeric tables were found for related Opt K22 dual RF amplifier (5-1500 MHz, 8 dB, +15 dBm); treat K92 as the same dual-amp accessory class and confirm exact K92 faceplate marking, connectors, and measured gain on the unit before use.

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.