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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 86222A RF plug-in

HP Agilent 86222A 10 MHz to 2.4 GHz RF Sweep Plug In The HP 86222A is a broadband RF plug-in for the 8620C (and 8350B via 11869A). OEM 8620 Series catalog specifications list 10 MHz to 2.4 GHz in one continuous sweep, CW accuracy plus or minus 10 MHz at 25 C, maximum leveled power greater than +13 dBm (20 mW), internally leveled variation plus or minus 0.25 dB, and harmonics less than minus 25 dBc at +13 dBm. Swept scalar and 8410-family measurements from HF through S-band; broadband stimulus with internal leveling and slope compensation. The HP 86222A is a broadband RF plug-in for the 8620C (and 8350B via 11869A). OEM 8620 Series catalog specifications list 10 MHz to 2.4 GHz in one continuous sweep, CW accuracy plus or minus 10 MHz at 25 C, maximum leveled power greater than +13 dBm (20 mW), internally leveled variation plus or minus 0.25 dB, and harmonics less than minus 25 dBc at +13 dBm. Swept scalar and 8410-family measurements from HF through S-band; broadband stimulus with internal leveling and slope compensation. Internal leveling standard, greater than +13 dBm

**MODEL****Agilent / Keysight
86222A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****86222A****LISTING**<https://aumictechlabs.com/products/86222a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 86222A is an RF plug-in module that expands the signal generation capabilities of compatible mainframe units. It delivers RF signal generation across 10 MHz to 2.4

GHz with leveled output power to +13 dBm, making it suitable for RF communication system testing, component characterization, and frequency marker applications.

Technical Specifications

Frequency Performance Frequency range: 10 MHz to 2.4 GHz CW mode accuracy: ± 10 MHz at 25°C Sweep mode accuracy (sweep time > 0.1 sec): ± 15 MHz Frequency stability: ± 500 kHz/°C with temperature; $\leq \pm 20$ kHz with 10% line voltage change; $\leq \pm 10$ kHz with 3:1 load SWR; $\leq \pm 100$ kHz with 10 dB power level change Residual FM (CW mode, 10 kHz bandwidth): ≤ 5 kHz peak

Power Output Maximum leveled power: +13 dBm Power variation (internally leveled): $\leq \pm 0.25$ dB

Output impedance: 50 ohms nominal **Source SWR:** $\leq 1.5:1$ **Connector:** Type N female **Modulation & Signal Purity** External FM maximum deviations: ± 75 MHz (DC–100 Hz), ± 5 MHz (100 Hz–1 MHz), ± 2 MHz (1 MHz–2 MHz) Harmonic spurious signals: >25 dB below fundamental Non-harmonic spurious: ≤ 30 dB (0.01–2.3 GHz); ≤ 25 dB (2.3–2.4 GHz)

Key Features RF blanking control via rear panel ON/OFF switch Phase-lock capability using external signal applied to FM input for enhanced frequency stability Internal crystal markers at 10 MHz, 50 MHz, and 1 MHz harmonics - selectable as intensity spots or amplitude dips Minimum sweep time: 10 ms over full band

Compatibility & Integration Designed for Agilent/Keysight 8620C and 8620A mainframe series. Also compatible with HP 8350A/B mainframe units.

86222A Characteristics / Specifications

PARAMETER	VALUE
Model	86222A
Instrument Type	Broadband RF sweep plug-in
Host Mainframe	HP 8620C; HP 8350B with 11869A adapter
Frequency Range	10 MHz to 2.4 GHz
Cw Frequency Accuracy	plus or minus 10 MHz at 25 C
Sweep Frequency Accuracy	plus or minus 15 MHz, sweep time greater than 100 ms
Linearity Typical	typically plus or minus 2 MHz
Stability Versus Temperature	plus or minus 500 kHz perCStability Versus 10 Percent Line: plus or minus 20 kHz
Stability Versus 10 Db Power Change	plus or minus 100 kHz
Residual Fm Cw	less than 5 kHz peak, 20 Hz to 15 kHz bandwidth, FM switch NORM
Maximum Levelled Power	greater than +13 dBm (20 mW) at 25 C, typically greater than +15 dBm
Power Level Accuracy Internal	plus or minus 1 dB, internal leveling
Power Variation Internal Full Band	plus or minus 0.25 dB, 0.01 to 2.4 GHz at max rated power
Power Variation Crystal External	plus or minus 0.1 dB excluding coupler and detector
Power Variation Power Meter External	plus or minus 0.1 dB with HP 432A/B/C
Residual Am	less than minus 50 dBc in 100 kHz bandwidth
Harmonics At Plus 13 Dbm	less than minus 25 dBc at +13 dBm; typically less than minus 30 dBc at +10 dBm
Nonharmonics To 2p3 Ghz	less than minus 30 dBc at +13 dBm, 0.01 to 2.3 GHz
Nonharmonics 2p3 To 2p4 Ghz	less than minus 25 dBc at +13 dBm, 2.3 to 2.4 GHz
Source Swr Internal Leveling	less than 1.5
Output Impedance	50 ohm nominal
Rf Output Connector	TypeNfemale
Internal Am On Off	1 kHz square-wave on/off ratio greater than 30 dB
Rf Blanking On Off	greater than 30 dB

PARAMETER	VALUE
External Fm Deviation Dc To 100 Hz	plus or minus 75 MHz
External Fm Deviation 100 Hz To 1 Mhz	plus or minus 5 MHz
Fm Sensitivity Typical	FM mode minus 20 MHz/V; phase-lock mode minus 6 MHz/V
Weight Net	2.5 kg
Weight Shipping	4 kg
Bandwidth	Harmonics At Plus 13 Dbm: less than minus 25 dBc at +13 dBm; typically less than minus 30 dBc at +10 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 list 10 MHz to 2.4 GHz in one continuous sweep, CW accuracy plus or minus 10 MHz at 25 C, maximum leveled power greater than +13 dBm (20 mW), internally leveled variation plus or minus 0.25 dB, and harmonics less than minus 25 dBc at +13 dBm.

Applications

Swept scalar and 8410-family measurements from HF through S-band; broadband stimulus with internal leveling and slope compensation.

Key Features

10 MHz to 2.4 GHz in one sweep

Internal leveling standard, greater than +13 dBm

Accepts 27.8 kHz scalar-analyzer square-wave AM

TypeNfemale 50 ohm output

Technical Specifications

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PARAMETER	VALUE
Model	86222A
Instrument Type	Broadband RF sweep plug-in
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Stability Versus 10 Db Power Change	plus or minus 100 kHz
Residual Fm Cw	less than 5 kHz peak, 20 Hz to 15 kHz bandwidth, FM switch NORM
Maximum Leveled Power	greater than +13 dBm (20 mW) at 25 C, typically greater than +15 dBm
Power Level Accuracy Internal	plus or minus 1 dB, internal leveling
Power Variation Internal Full Band	plus or minus 0.25 dB, 0.01 to 2.4 GHz at max rated power
Power Variation Crystal External	plus or minus 0.1 dB excluding coupler and detector
Power Variation Power Meter External	plus or minus 0.1 dB with HP 432A/B/C
Residual Am	less than minus 50 dBc in 100 kHz bandwidth
Harmonics At Plus 13 Dbm	less than minus 25 dBc at +13 dBm; typically less than minus 30 dBc at +10 dBm
Nonharmonics To 2p3 Ghz	less than minus 30 dBc at +13 dBm, 0.01 to 2.3 GHz
Nonharmonics 2p3 To 2p4 Ghz	less than minus 25 dBc at +13 dBm, 2.3 to 2.4 GHz

PARAMETER	VALUE
Source Swr Internal Leveling	less than 1.5
Output Impedance	50 ohm nominal
Rf Output Connector	TypeNfemale
Internal Am On Off	1 kHz square-wave on/off ratio greater than 30 dB
Rf Blanking On Off	greater than 30 dB
External Fm Deviation Dc To 100 Hz	plus or minus 75 MHz

External Fm Deviation 100 Hz To 1 Mhz: plus or minus 5 MHz

Specifications

PARAMETER	VALUE
Fm Sensitivity Typical	FM mode minus 20 MHz/V; phase-lock mode minus 6 MHz/V
Weight Net	2.5 kg
Weight Shipping	4 kg

Option 002 Attenuator: 70 dB step attenuator, 10 dB steps

Notes
Numeric rows from HP 8620 Series catalog specifications for 86222A/B installed in an 8620C, 86222A column (no crystal-marker system). 86222B adds 1/10/50 MHz crystal markers.

Ordering Information

OPTION	DESCRIPTION
Option 002	Attenuator: 70 dB step attenuator, 10 dB steps

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.