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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 86222B RF plug-in

HP Agilent 86222B 10 MHz to 2.4 GHz RF Sweep Plug In with Crystal Markers The HP 86222B is the crystal-marker version of the 86222A plug-in for 8620C. OEM catalog specifications match the 86222A RF table (10 MHz to 2.4 GHz, greater than +13 dBm, plus or minus 0.25 dB internal flatness) and add 1, 10, and 50 MHz harmonic markers with plus or minus 5e-6 center-frequency accuracy at 25 C. Swept scalar recordings that need comb markers, CW frequency checks via the front-panel coincidence LED, and broadband 10 MHz to 2.4 GHz stimulus. The HP 86222B is the crystal-marker version of the 86222A plug-in for 8620C. OEM catalog specifications match the 86222A RF table (10 MHz to 2.4 GHz, greater than +13 dBm, plus or minus 0.25 dB internal flatness) and add 1, 10, and 50 MHz harmonic markers with plus or minus 5e-6 center-frequency accuracy at 25 C. Swept scalar recordings that need comb markers, CW frequency checks via the front-panel coincidence LED, and broadband 10 MHz to 2.4 GHz stimulus. Same leveled +13 dBm RF performance as 86222A



MODEL

**Agilent / Keysight
86222B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

86222B

LISTING

<https://aumictechlabs.com/products/86222b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 86222B is an RF plug-in module designed for the 8620 series sweep oscillator mainframes. It delivers continuous swept-frequency coverage from 10 MHz to 2.4 GHz with calibrated power output from 0 to +13 dBm in 1 dB increments. The module maintains ± 0.25

dB flatness across the entire frequency range and integrates a crystal marker system with selectable intervals of 1, 10, or 50 MHz for CRT display or RF signal monitoring.

Technical Specifications

Frequency Range: 10 MHz to 2.4 GHz (continuous sweep)

Calibrated Power Output: 0 to +13 dBm

Power Output Increments: 1 dB steps

Maximum Leveled Power: >20 mW (+13 dBm)

Internally Leveled Flatness: ± 0.25 dB across full range

Residual AM (100 kHz bandwidth): < -50 dBc

Harmonic Spurious Signals: < -25 dBc at +13 dBm output power

Key Features

Crystal marker system with 1, 10, or 50 MHz interval selection

Markers displayable as intensified CRT spots or RF output amplitude dips

Optional rear-panel RF output with 0 to 70 dB step attenuator (Option 002/004)

Z-axis input for marker display synchronization

Marker output for external display control

Compatibility & Integration

Designed exclusively for integration with Agilent/Keysight 8620 series sweep oscillator mainframes.

Standard RF output connector; Option 002/004 provides rear-panel RF output with integrated step attenuator for enhanced signal path control.

86222B Characteristics / Specifications

PARAMETER	VALUE
Model	86222B
Instrument Type	Broadband RF sweep plug-in with crystal markers
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
Crystal Enhanced Accuracy	better than plus or minus 200 kHz using crystal markers
Maximum Leveled Power	greater than +13 dBm (20 mW) at 25 C
Power Variation Internal Full Band	plus or minus 0.25 dB, 0.01 to 2.4 GHz
Residual Fm Cw	less than 5 kHz peak, 20 Hz to 15 kHz bandwidth
Harmonics At Plus 13 Dbm	less than minus 25 dBc at +13 dBm
Source Swr Internal Leveling	less than 1.5
Rf Output Connector	TypeNfemale
Internal Markers 10 And 50 Mhz	usable over full 0.01 to 2.4 GHz
Internal Markers 1 Mhz	usable 0.01 to 1 GHz
Marker Center Frequency Accuracy	plus or minus 5e-6 at 25 C
Marker Width Typical 1 Mhz	typically plus or minus 75 kHz around center frequency
Marker Width Typical 10 Mhz	typically plus or minus 200 kHz
Marker Width Typical 50 Mhz	typically plus or minus 300 kHz
Marker Temperature Stability Typical	typically plus or minus 2e-6 perCPositive Intensity Marker: nominally greater than 3 V
Negative Intensity Marker	nominally minus 3 to minus 8 V
Amplitude Marker Depth Typical	typically 0.5 dB, internally adjustable
External Fm Deviation Dc To 100 Hz	plus or minus 75 MHz
Fm Sensitivity Typical	FM mode minus 20 MHz/V; phase-lock mode minus 6 MHz/V
Weight Net	2.5 kg

PARAMETER	VALUE
Weight Shipping	4 kg
Related Model Without Markers	86222A same RF table without crystal markers
Bandwidth	Harmonics At Plus 13 Dbm: less than minus 25 dBc at +13 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 match the 86222A RF table (10 MHz to 2.4 GHz, greater than +13 dBm, plus or minus 0.25 dB internal flatness) and add 1, 10, and 50 MHz harmonic markers with plus or minus 5e-6 center-frequency accuracy at 25 C.

Applications

Swept scalar recordings that need comb markers, CW frequency checks via the front-panel coincidence LED, and broadband 10 MHz to 2.4 GHz stimulus.

Key Features

1, 10, and 50 MHz crystal marker combs

Intensity or amplitude marker display

Same leveled +13 dBm RF performance as 86222A

External marker input

Technical Specifications

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PARAMETER	VALUE
Model	86222B
Instrument Type	Broadband RF sweep plug-in with crystal markers
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
Crystal Enhanced Accuracy	better than plus or minus 200 kHz using crystal markers
Maximum Leveled Power	greater than +13 dBm (20 mW) at 25 C
Power Variation Internal Full Band	plus or minus 0.25 dB, 0.01 to 2.4 GHz
Residual Fm Cw	less than 5 kHz peak, 20 Hz to 15 kHz bandwidth
Harmonics At Plus 13 Dbm	less than minus 25 dBc at +13 dBm
Source Swr Internal Leveling	less than 1.5
Rf Output Connector	TypeNfemale
Internal Markers 10 And 50 Mhz	usable over full 0.01 to 2.4 GHz
Internal Markers 1 Mhz	usable 0.01 to 1 GHz
Marker Center Frequency Accuracy	plus or minus 5e-6 at 25 C
Marker Width Typical 1 Mhz	typically plus or minus 75 kHz around center frequency
Marker Width Typical 10 Mhz	typically plus or minus 200 kHz
Marker Width Typical 50 Mhz	typically plus or minus 300 kHz

PARAMETER	VALUE
Marker Temperature Stability Typical	typically plus or minus 2e-6 perC Positive Intensity Marker: nominally greater than 3 V
Negative Intensity Marker	nominally minus 3 to minus 8 V
Amplitude Marker Depth Typical	typically 0.5 dB, internally adjustable
External Fm Deviation Dc To 100 Hz	plus or minus 75 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

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

Related Model Without Markers: 86222A same RF table without crystal markers

Notes

Numeric rows from HP 8620 Series catalog specifications for 86222A/B and Crystal Marker Capabilities (86222B only). RF power and accuracy rows are the shared 86222A/B table.

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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NIST-traceable calibration · SAM registered ·
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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.