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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 86602B RF plug-in; 1 to 1300 MHz for 8660A/C

HP Agilent Keysight 86602B RF Section 1 to 1300 MHz for 8660 Mainframes The HP/Agilent 86602B is an RF section plug-in for 8660-series synthesized signal generator mainframes. OEM 86602B Operating and Service Manual Table 1-1 lists 1.0 to 1299.999999 MHz in 1 Hz steps (200 kHz to 1 MHz with degraded specs), plus 10 to minus 146 dBm, and AM/FM/pulse/phase depending on the companion modulation section. Modular 1.3 GHz synthesized sources, AM/FM/pulse receiver tests with 86632/86633/86631 sections, and HP-IB automated RF when the mainframe is so equipped. The HP/Agilent 86602B is an RF section plug-in for 8660-series synthesized signal generator mainframes. OEM 86602B Operating and Service Manual Table 1-1 lists 1.0 to 1299.999999 MHz in 1 Hz steps (200 kHz to 1 MHz with degraded specs), plus 10 to minus 146 dBm, and AM/FM/pulse/phase depending on the companion modulation section. Modular 1.3 GHz synthesized sources, AM/FM/pulse receiver tests with 86632/86633/86631 sections, and HP-IB automated RF when the mainframe is so equipped. 1 Hz steps from 1 to 1300 MHz in an 8660 mainframe



Actium Technology Group

MODEL

**Agilent / Keysight
86602B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

86602B

LISTING

<https://aumictechlabs.com/products/86602b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 86602B is an RF plug-in module that expands the signal generation capabilities of the 8660A and 8660C signal generators. Operating from 1 MHz to 1300 MHz, this plug-in delivers versatile RF signal generation across a wide frequency band suitable for diverse testing and measurement applications in the VHF and UHF spectrum.

Technical Specifications
Frequency Range: 1 MHz to 1300 MHz
Modulation: Phase modulation capability available with Option 002. A compatible modulation section is required to enable phase modulation functionality.

Key Features
Plug-in architecture for 8660A and 8660C host instruments
Phase modulation option available
Extended frequency coverage in RF band

Typical Applications
The 86602B supports RF testing, signal generation, and measurement applications across the 1 to 1300 MHz range, including VHF and UHF band operations.

Compatibility & Integration
The 86602B is designed exclusively for integration with Agilent/Keysight 8660A and 8660C signal generators. Phase modulation requires a compatible modulation section within the host instrument.

86602B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	RF section plug-in for 8660 synthesized signal generator
Series Family	HP 86602B/11661 with 8660-series mainframes
Frequency Range	1.0 to 1299.999999 MHz in 1 Hz steps
Extended Low Band	200 kHz to 1 MHz with degraded leveling and related specs
Mainframe Resolution Option 0	100 Hz
Frequency Accuracy	determined by mainframe timebase aging, temperature, and line sensitivity
Switching Time	6 ms to within 50 Hz of any new frequency; 100 ms to within 5 Hz
Harmonics	at least 30 dB below output for levels less than plus 3 dBm; 25 dB down above plus 3 dBm
Spurious Below 700 MHz	80 dB down from carrier (CW, AM, and phase modulation)
Power Line Related Spurious	70 dB down from carrier
Residual FM	less than 1.5 Hz rms in a 2 kHz band centered on the carrier (CW, AM, 2nd phase mod)
Signal to Phase Noise	greater than 45 dB in a 30 kHz band excluding a 1 Hz carrier notch
Signal to AM Noise	greater than 65 dB down in a 30 kHz band excluding a 1 Hz notch
Output Level Range	plus 10 dBm to minus 146 dBm into 50 ohm
Attenuator	10 dB steps from plus 10 dBm range to minus 140 dBm range with vernier
Level Accuracy	plus or minus 1.5 dB to minus 76 dBm; plus or minus 2.0 dB to minus 146 dBm at meter plus 3 to minus 6 dB
Flatness 1 to 1300 MHz	less than plus or minus 1.0 dB at meter plus 3 to minus 6 dB
Level Switching Time Remote	less than 50 ms any change; less than 5 ms on the same attenuator range
VSWR	less than 2.0 on plus 10 and 0 dBm ranges; less than 1.3 on minus 10 dBm and below
AM Depth	0 to 90 percent at meter plus 3 to minus 6 dB and only at plus 3 dBm and below

PARAMETER	VALUE
AM 3 dB Bandwidth 0 to 30 percent AM fc greater than or equal to 10 MHz	100 kHz
Incidental PM at 30 percent AM	less than 0.2 radians peak
FM Rate with 86632B/86635A	dc to 200 kHz; max peak deviation 200 kHz
FM Rate with 86633B	20 Hz to 100 kHz; max peak deviation 100 kHz
Pulse On Off Ratio with 86631B	at least 40 dB
Pulse Rise Fall	50 ns
Phase Modulation Option 002 Peak Deviation	0 to 100 degrees peak (overdrive to 2 radians in external dc)
Remote Frequency Steps	1 Hz
Remote Level Steps	1 dB from plus 10 to minus 146 dBm
Leakage	MIL-I-6181D radiated and conducted limits
Net Weight	3.9 kg (9 lb)
Output Impedance	50 ohm
Form Factor	plug-in to 8660-series mainframe
Bandwidth	0 to 30 percent AM fc greater than or equal to 10 MHz: 100 kHz

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
Instrument Type	RF section plug-in for 8660 synthesized signal generator
Series Family	HP 86602B/11661 with 8660-series mainframes
Frequency Range	1.0 to 1299.999999 MHz in 1 Hz steps
Extended Low Band	200 kHz to 1 MHz with degraded leveling and related specs
Mainframe Resolution Option 004	100 Hz
Frequency Accuracy	determined by mainframe timebase aging, temperature, and line sensitivity
Switching Time	6 ms to within 50 Hz of any new frequency; 100 ms to within 5 Hz
Harmonics	at least 30 dB below output for levels less than plus 3 dBm; 25 dB down above plus 3 dBm
Spurious Below 700 MHz	80 dB down from carrier (CW, AM, and phase modulation)
Power Line Related Spurious	70 dB down from carrier
Residual FM	less than 1.5 Hz rms in a 2 kHz band centered on the carrier (CW, AM, 2nd phase mod)
Signal to Phase Noise	greater than 45 dB in a 30 kHz band excluding a 1 Hz carrier notch
Signal to AM Noise	greater than 65 dB down in a 30 kHz band excluding a 1 Hz notch
Output Level Range	plus 10 dBm to minus 146 dBm into 50 ohm
Attenuator	10 dB steps from plus 10 dBm range to minus 140 dBm range with vernier
Level Accuracy	plus or minus 1.5 dB to minus 76 dBm; plus or minus 2.0 dB to minus 146 dBm at meter plus 3 to minus 6 dB
Flatness 1 to 1300 MHz	less than plus or minus 1.0 dB at meter plus 3 to minus 6 dB
Level Switching Time Remote	less than 50 ms any change; less than 5 ms on the same attenuator range
VSWR	less than 2.0 on plus 10 and 0 dBm ranges; less than 1.3 on minus 10 dBm and below
AM Depth	0 to 90 percent at meter plus 3 to minus 6 dB and only at plus 3 dBm and below
AM 3 dB Bandwidth 0 to 30 percent AM fc greater than or equal to 10 MHz: 100 kHz	
Specifications	

PARAMETER	VALUE
Incidental PM at 30 percent AM	less than 0.2 radians peak
FM Rate with 86632B/86635A	dc to 200 kHz; max peak deviation 200 kHz
FM Rate with 86633B	20 Hz to 100 kHz; max peak deviation 100 kHz
Pulse On Off Ratio with 86631B	at least 40 dB
Pulse Rise Fall	50 ns
Phase Modulation Option 002 Peak Deviation	0 to 100 degrees peak (overdrive to 2 radians in external dc)
Remote Frequency Steps	1 Hz
Remote Level Steps	1 dB from plus 10 to minus 146 dBm
Leakage	MIL-I-6181D radiated and conducted limits
Net Weight	3.9 kg (9 lb)
Output Impedance	50 ohm
Form Factor	plug-in to 8660-series mainframe

Notes

Numeric rows from HP 86602B RF Section Operating and Service Manual 86602-90015 Table 1-1 (Models 86602B/11661). Requires an Option 100 8660-series mainframe with Frequency Extension Module.

Ordering Information

OPTION	DESCRIPTION
Option 100	mainframe with 11661 Frequency Extension Module
Option 002	phase modulation instruments

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.