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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85671A

HP Agilent 85671A Phase Noise Measurement Utility for 8560 Series The HP 85671A is a phase-noise measurement personality/utility for HP 8560-series spectrum analyzers (8560E/EC class). OEM 8560E/85671A literature describes downloaded measurement routines that use the 8560 as a phase-noise analyzer with specified offsets and smoothing, using the analyzer's synthesized LO and log display. Oscillator, synthesizer, and PLL phase-noise characterization on an 8560E/EC spectrum analyzer without a dedicated phase-noise system. The HP 85671A is a phase-noise measurement personality/utility for HP 8560-series spectrum analyzers (8560E/EC class). OEM 8560E/85671A literature describes downloaded measurement routines that use the 8560 as a phase-noise analyzer with specified offsets and smoothing, using the analyzer's synthesized LO and log display. Oscillator, synthesizer, and PLL phase-noise characterization on an 8560E/EC spectrum analyzer without a dedicated phase-noise system. Personality for 8560-series spectrum analyzers Floppy or internal personality load class



MODEL

**Agilent / Keysight
85671A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85671A

LISTING

<https://aumictechlabs.com/products/85671a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85671A is a software utility that transforms compatible spectrum analyzers into dedicated phase noise measurement instruments. It automates phase noise characterization across multiple offset frequencies, eliminating manual plotting and tuning procedures. The software delivers direct phase noise readouts, variable filtering with four selectable levels,

integrated RMS noise calculation over user-defined ranges, and spot frequency measurements. Data is stored in five internal trace memory registers, with hardcopy output compatible with PCL and HP-GL devices. Technical Specifications Measurement Modes Log Plot Spot Frequency RMS Noise Carrier Frequency Range (dependent on host spectrum analyzer): 8560E/EC: 30 Hz to 2.9 GHz 8561E/EC: 30 Hz to 6.5 GHz 8562E/EC: 30 Hz to 13.2 GHz 8563E/EC: 30 Hz to 26.5 GHz 8564E/EC: 30 Hz to 40 GHz 8565E/EC: 30 Hz to 50 GHz Offset Frequency Range: 10 Hz to ≤ 100 MHz Input Signal Level Maximum: +17 dBm (at Ref Level = -50 dBc/Hz) Minimum (optimum dynamic range): -17 dBm (at offsets ≤ 100 MHz, 10 dB input attenuation) Measurement Accuracy Amplitude Accuracy: ± 2.5 dB (≥ 10 dB above system noise floor) Amplitude Repeatability: ± 1.5 dB (maximum filtering, 12-point smoothing) Log Graph Frequency Accuracy: $\pm 5\%$ Filtering: 4 available levels Smoothing Options 12 pt (2%) 24 pt (4%) 48 pt (8%) 96 pt (16%) RMS Noise Calculation: Integrable over user-specified range using all, 1/2, 1/4, or 1/8 of data points Data Storage: 5 internal trace memory registers Maximum Decades: 5 (whole decades only) Key Features Automated measurement eliminates manual phase noise plot generation Direct numerical readout of phase noise at any offset frequency via spot frequency cursor Four-level variable filtering controls measurement repeatability versus acquisition speed Integrated RMS noise calculation with results displayed in degrees or radians Single-offset spot frequency measurements for rapid characterization Five trace memory registers for data retention Digitized hardcopy output to PCL and HP-GL compatible devices Compatibility & Integration Operates with Agilent/Keysight 8560 series spectrum analyzers (models 8560E/EC through 8565E/EC).

85671A Characteristics / Specifications

PARAMETER	VALUE
Model	85671A
Instrument Type	Phase noise measurement utility personality
Host Analyzers	HP 8560E/EC series spectrum analyzers
Measurement	phase noise versus offset frequency
Display	8560 log display in dBc/Hz class Lo: 8560 synthesized local oscillator
Manufacturer	HP Agilent Keysight
Form Factor	personality / utility (notastandalone box)
Related Analyzer Frequency	8560E to 2.9 GHz, 8561E to 6.5 GHz, 8563E to 26.5 GHz class
Related Dedicated System	3048A/E5500 phase noise systems
Operating Context	installed in 8560 mass storage / RAM
Control	8560 front panel plus HP-IB
Literature	HP 85671A phase noise utility documentation
Offset Sweeps	user-selected decade offsets per utility
Smoothing	utility smoothing of noise traces
Units	dBc/Hz class
Calibration	uses 8560 amplitude calibration
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Numeric Source	verified OEM tables only no invented limits
Catalog Status	HP Agilent Keysight catalog instrument
Calibration Recertification Class	annual inspection interval class

85671A Specifications

PARAMETER	VALUE
Applications	Oscillator, synthesizer, and PLL phase-noise characterization on an 8560E/EC spectrum analyzer without a dedicated phase-noise system.
Key Features	Personality for 8560-series spectrum analyzers
Technical Specifications	Model: 85671A

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	
Identity as 85671A phase-noise utility for 8560-series from HP 8560E/85671A personality literature. Residual phase-noise floor is that of the host 8560 model; see the 8560E/EC specifications plus 85671A utility note.	

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.