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Data Sheet

August 5, 2026

KEYSIGHT

Keysight (Agilent) E5057A SSA-X Signal Source Analyzer, 1 MHz to 44 GHz

Keysight (Agilent) E5057A SSA-X Signal Source Analyzer, 1 MHz to 44 GHz The Keysight E5057A is an SSA-X signal source analyzer covering 1 MHz to 44 GHz. Part of the E5055/6/7/8A family for absolute and residual phase noise, AM noise, baseband noise, VCO characterization, transient analysis, spectrum analysis, and optional VNA/jitter. Dual-channel cross-correlation improves sensitivity (cross-correlation factors from about 1 to 100,000 with software). Hardware options include standard (100) or enhanced low phase noise (200). The Keysight E5057A is an SSA-X signal source analyzer covering 1 MHz to 44 GHz. Part of the E5055/6/7/8A family for absolute and residual phase noise, AM noise, baseband noise, VCO characterization, transient analysis, spectrum analysis, and optional VNA/jitter. Dual-channel cross-correlation improves sensitivity (cross-correlation factors from about 1 to 100,000 with software). Hardware options include standard (100) or enhanced low phase noise (200). Oscillator/synthesizer/VCO characterization; aerospace/defense and wireless PN; residual PN; pulsed-RF PN (options); clock jitter analysis (options).

No photo

MODEL

Keysight E5057A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

E5057A

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- RF frequency range: 1 MHz to 44 GHz
- Minimum offset frequency: 1 mHz
- Maximum offset: up to 1 GHz default (carrier-dependent); extension mode to 3 GHz / 8 GHz for selected carriers
- Input power (typical class): about -50 to +20 dBm (band-dependent warranted windows)
- Phase noise measurement accuracy: <1.5 dB (offset to 1 MHz), <2 dB (1–30 MHz), <3 dB (30–100 MHz) under stated conditions
- Cross-correlation analysis for sensitivity improvement
- Measurements: PN, AM noise, residual PN/AM, VCO, transient, spectrum, optional VNA and jitter
- Related models: E5055A (8 GHz), E5056A (26.5 GHz), E5058A (54 GHz)

E5057A Characteristics / Specifications

PARAMETER	VALUE
Model	E5057A
Manufacturer	Keysight Technologies
Instrument Type	SSA-X Signal Source Analyzer
Family	E505xA SSA-X
Alias	E5057A Frequency / Offset
RF range	1 MHz to 44 GHz
Min offset	1 mHz
Max offset	carrier-dependent; up to 1 GHz (default) and higher with max-offset extension Input
Input power range	band-dependent; typical -50 to +20 dBm class for carriers to ~50 GHz Phase Noise Accuracy (published class) <1.5 dB to 1 MHz offset; <2 dB 1–30 MHz; <3 dB 30–100 MHz (stated signal levels) Operational Notes Prefer Keysight E5055A family datasheet 3122-1508 (covers E5057A). Options 100/200 select phase-noise hardware tier.
RF frequency range	1 MHz to 44 GHz
Minimum offset frequency	1 mHz
Maximum offset	up to 1 GHz default (carrier-dependent); extension mode to 3 GHz / 8 GHz for selected carriers
Input power (typical class)	about -50 to +20 dBm (band-dependent warranted windows)
Phase noise measurement accuracy	<1.5 dB (offset to 1 MHz), <2 dB (1–30 MHz), <3 dB (30–100 MHz) under stated conditions
Measurements	PN, AM noise, residual PN/AM, VCO, transient, spectrum, optional VNA and jitter
Related models	E5055A (8 GHz), E5056A (26.5 GHz), E5058A (54 GHz)

E5057A Specifications

PARAMETER	VALUE
Key Features	- RF frequency range: 1 MHz to 44 GHz
Technical Specifications	Model: E5057A
Frequency / Offset	RF range: 1 MHz to 44 GHz
Input	Input power range: band-dependent; typical -50 to +20 dBm class for carriers to ~50 GHz
Phase Noise Accuracy (published class)	<1.5 dB to 1 MHz offset; <2 dB 1–30 MHz; <3 dB 30–100 MHz (stated signal levels)
Operational Notes	Prefer Keysight E5055A family datasheet 3122-1508 (covers E5057A). Options 100/200 select phase-noise hardware tier.

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

Specifications

PARAMETER	VALUE
Model	E5057A
Manufacturer	Keysight Technologies
Instrument Type	SSA-X Signal Source Analyzer
Family	E505xA SSA-X
Alias	E5057A

Frequency / Offset

Frequency / Offset

PARAMETER	VALUE
RF range	1 MHz to 44 GHz
Min offset	1 mHz
Max offset	carrier-dependent; up to 1 GHz (default) and higher with max-offset extension

Input

Input power range: band-dependent; typical -50 to +20 dBm class for carriers to ~50 GHz

Phase Noise Accuracy (published class)

<1.5 dB to 1 MHz offset; <2 dB 1–30 MHz; <3 dB 30–100 MHz (stated signal levels)

Operational Notes

Prefer Keysight E5055A family datasheet 3122-1508 (covers E5057A). Options 100/200 select phase-noise hardware tier.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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.