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Data Sheet
August 5, 2026

KEYSIGHT

Keysight (Agilent) E5055A SSA-X Signal Source Analyzer, 1 MHz to 8 GHz

Keysight (Agilent) E5055A SSA-X Signal Source Analyzer, 1 MHz to 8 GHz The Keysight E5055A is the 8 GHz member of the SSA-X signal source analyzer family. It provides absolute and residual phase noise, AM noise, baseband noise, VCO characterization, transient analysis, spectrum analysis, and optional advanced features. Cross-correlation improves system noise sensitivity. Option 100 = standard PN hardware; Option 200 = enhanced low phase noise (typically 4–7 dB better close-in sensitivity vs Option 100 below ~10 kHz). The Keysight E5055A is the 8 GHz member of the SSA-X signal source analyzer family. It provides absolute and residual phase noise, AM noise, baseband noise, VCO characterization, transient analysis, spectrum analysis, and optional advanced features. Cross-correlation improves system noise sensitivity. Option 100 = standard PN hardware; Option 200 = enhanced low phase noise (typically 4–7 dB better close-in sensitivity vs Option 100 below ~10 kHz). RF oscillator and synthesizer characterization to 8 GHz; wireless/comms R&D; VCO tuning curves; residual and absolute PN.

No photo

MODEL Keysight E5055A	CALIBRATION N/A — off-catalog OEM datasheet
CONDITION See OEM documentation	STATUS Not listed on Aumictech inventory
RFQ / SKU E5055A	LISTING Off-catalog — OEM datasheet 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 8 GHz • Minimum offset: 1 mHz • Max offset (default): up to 1 GHz for carriers ~1.61–7.19 GHz; extension mode up to 8 GHz / 3 GHz for selected carriers • Input power: -20 to +20 dBm (warranted class to 8 GHz); typical to about -50 dBm with search • System noise sensitivity: about -175 dBc/Hz typical class at higher offsets (option-dependent close-in) • Cross-correlation factors: 1 to 100,000 class (software) • Full-span spectrum analysis to 8 GHz with S96390xB option class • Related: E5056A 26.5 GHz, E5057A 44 GHz, E5058A 54 GHz

E5055A Characteristics / Specifications

PARAMETER	VALUE
Model	E5055A
Manufacturer	Keysight Technologies
Instrument Type	SSA-X Signal Source Analyzer
Family	E505xA SSA-X
Alias	E5055A Frequency / Offset
RF range	1 MHz to 8 GHz
Min offset	1 mHz
Max offset	carrier-dependent per Keysight Table 1 (E5055A column) Input / Accuracy
Input	-20 to +20 dBm (1 MHz–8 GHz, enable-search off class)
PN accuracy	<1.5 / <2 / <3 dB by offset band under published conditions Hardware Options E5055A-100 Standard phase noise; E5055A-200 Enhanced low phase noise Operational Notes Prefer Keysight datasheet 3122-1508 and configuration guide 3122-1545.
RF frequency range	1 MHz to 8 GHz
Minimum offset	1 mHz
Max offset (default)	up to 1 GHz for carriers ~1.61–7.19 GHz; extension mode up to 8 GHz / 3 GHz for selected carriers
Input power	-20 to +20 dBm (warranted class to 8 GHz); typical to about -50 dBm with search
System noise sensitivity	about -175 dBc/Hz typical class at higher offsets (option-dependent close-in)
Cross-correlation factors	1 to 100,000 class (software)
Related	E5056A 26.5 GHz, E5057A 44 GHz, E5058A 54 GHz

E5055A Specifications

PARAMETER	VALUE
Applications	RF oscillator and synthesizer characterization to 8 GHz; wireless/comms R&D; VCO tuning curves; residual and absolute PN.
Key Features	- RF frequency range: 1 MHz to 8 GHz
Technical Specifications	Model: E5055A
Frequency / Offset	RF range: 1 MHz to 8 GHz
Input / Accuracy	Input: -20 to +20 dBm (1 MHz–8 GHz, enable-search off class)
Hardware Options	E5055A-100 Standard phase noise; E5055A-200 Enhanced low phase noise
Operational Notes	Prefer Keysight datasheet 3122-1508 and configuration guide 3122-1545.

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	E5055A
Manufacturer	Keysight Technologies
Instrument Type	SSA-X Signal Source Analyzer
Family	E505xA SSA-X
Alias	E5055A

Frequency / Offset

Frequency / Offset

PARAMETER	VALUE
RF range	1 MHz to 8 GHz
Min offset	1 mHz
Max offset	carrier-dependent per Keysight Table 1 (E5055A column)

Input / Accuracy
Input: -20 to +20 dBm (1 MHz–8 GHz, enable-search off class)
PN accuracy: <1.5 / <2 / <3 dB by offset band under published conditions

Hardware Options
E5055A-100 Standard phase noise; E5055A-200 Enhanced low phase noise

Operational Notes
Prefer Keysight datasheet 3122-1508 and configuration guide 3122-1545.

Ordering Information

OPTION	DESCRIPTION
Option 100	= standard PN hardware; Option 200 = enhanced low phase noise (typically 4–7 dB better close-in sensitivity vs Option 100 below ~10 kHz).

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

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