

**Aumictech**

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Data Sheet

August 5, 2026

KEYSIGHT

Keysight (Agilent) E5502A Phase Noise Measurement Solution, 50 kHz to 6.0 GHz

Keysight (Agilent) E5502A Phase Noise Measurement Solution, 50 kHz to 6.0 GHz The Keysight/Agilent E5502A is an E5500 A-series phase noise measurement solution configured for carrier frequencies from 50 kHz to 6.0 GHz. Designed to minimize production ATE test times for one-port VCOs, DROs, crystal oscillators, and synthesizers. A-series offset capability typically 0.01 Hz to 4 MHz (extendable with options). Includes phase noise test set hardware, digitizer path, selected downconverter for 6 GHz coverage, and measurement software with a PC. The Keysight/Agilent E5502A is an E5500 A-series phase noise measurement solution configured for carrier frequencies from 50 kHz to 6.0 GHz. Designed to minimize production ATE test times for one-port VCOs, DROs, crystal oscillators, and synthesizers. A-series offset capability typically 0.01 Hz to 4 MHz (extendable with options). Includes phase noise test set hardware, digitizer path, selected downconverter for 6 GHz coverage, and measurement software with a PC. Production ATE phase-noise test of oscillators and synthesizers; AM noise; absolute/residual PN characterization to 6 GHz.

No photo

MODEL Keysight E5502A	CALIBRATION N/A — off-catalog OEM datasheet
CONDITION See OEM documentation	STATUS Not listed on Aumictech inventory
RFQ / SKU E5502A	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

- Carrier frequency: 50 kHz to 6.0 GHz
- A-series offsets: 0.01 Hz to 4 MHz (standard class; options extend)
- Fast ATE-oriented measurements
- Direct AM noise measurement capability
- Flexible sharing of RF assets with other measurements
- Related models: E5501A (1.6 GHz), E5503A (18 GHz), E5504A (26.5 GHz); B-series siblings extend offsets to 100 MHz

E5502A Characteristics / Specifications

PARAMETER	VALUE
Model	E5502A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Phase Noise Measurement Solution
Family	E5500 A-Series
Alias	E5502A; Agilent E5502A Frequency
Carrier range	50 kHz to 6.0 GHz
Carrier frequency	50 kHz to 6.0 GHz
A-series offsets	0.01 Hz to 4 MHz (standard class; options extend)
Related models	E5501A (1.6 GHz), E5503A (18 GHz), E5504A (26.5 GHz); B-series siblings extend offsets to 100 MHz

E5502A Specifications

PARAMETER	VALUE
Applications	Production ATE phase-noise test of oscillators and synthesizers; AM noise; absolute/residual PN characterization to 6 GHz.
Key Features	- Carrier frequency: 50 kHz to 6.0 GHz
Technical Specifications	Model: E5502A
Frequency	Carrier range: 50 kHz to 6.0 GHz
System Architecture	Phase noise test set with phase detectors / PLL; baseband digitizer; low-noise downconverter for 6 GHz coverage; PC software automation

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	E5502A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Phase Noise Measurement Solution
Family	E5500 A-Series
Alias	E5502A; Agilent E5502A

Frequency

Carrier range: 50 kHz to 6.0 GHz

Offset range (A-series): 0.01 Hz to 4 MHz (standard published class)

System Architecture

Phase noise test set with phase detectors / PLL; baseband digitizer; low-noise downconverter for 6 GHz coverage; PC software automation

Operational Notes

Do not confuse with N5502A microwave downconverter accessory. Prefer Agilent E5500 Series datasheet / configuration guide for sensitivity tables and options.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.