

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 5, 2026

KEYSIGHT

Keysight (Agilent) E5504B Phase Noise Measurement Solution, 50 kHz to 26.5 GHz

Keysight (Agilent) E5504B Phase Noise Measurement Solution, 50 kHz to 26.5 GHz The Keysight/Agilent E5504B is an E5500 B-series phase noise measurement solution for carriers from 50 kHz to 26.5 GHz. B-series offset range extends to 100 MHz with optional spectrum/signal analyzer (digitizer path typically 0.01 Hz to 2 MHz without). Includes phase noise test set, downconverter path for microwave carriers, digitizer, software, and PC. Typical system noise -180 dBc/Hz (>10 kHz offsets). Microwave oscillator and synthesizer PN; ATE and R&D absolute/residual PN and AM noise to 26.5 GHz. The Keysight/Agilent E5504B is an E5500 B-series phase noise measurement solution for carriers from 50 kHz to 26.5 GHz. B-series offset range extends to 100 MHz with optional spectrum/signal analyzer (digitizer path typically 0.01 Hz to 2 MHz without). Includes phase noise test set, downconverter path for microwave carriers, digitizer, software, and PC. Typical system noise -180 dBc/Hz (>10 kHz offsets). Microwave oscillator and synthesizer PN; ATE and R&D absolute/residual PN and AM noise to 26.5 GHz.

No photo

MODEL

Keysight E5504B

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

E5504B

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 26.5 GHz • B-series offsets: 0.01 Hz to 100 MHz (with analyzer) • System noise: -180 dBc/Hz typically (>10 kHz) • System spurious: < -120 dBc typically • Phase detector input (<1.6 GHz): R 0 to $+23$ dBm; L $+15$ to $+23$ dBm • Downconverter input ranges: 1–6 GHz; 1–18 GHz; 1.5–26.5 GHz class • Measurement accuracy: ± 2 dB (<1 MHz); ± 4 dB (<100 MHz) • Related: E5504A (A-series); E5501B/E5502B/E5503B lower max carriers

E5504B Characteristics / Specifications

PARAMETER	VALUE
Model	E5504B
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Phase Noise Measurement Solution
Family	E5500 B-Series
Alias	E5504B; Agilent E5504B Frequency
Carrier	50 kHz–26.5 GHz
Offset	0.01 Hz–100 MHz (B-series) Operational Notes Prefer Agilent E5500 datasheet 5989-0851 / config guide 5988-9891.
Carrier frequency	50 kHz to 26.5 GHz
B-series offsets	0.01 Hz to 100 MHz (with analyzer)
System noise	–180 dBc/Hz typically (>10 kHz)
System spurious	< –120 dBc typically
Phase detector input (<1.6 GHz)	R 0 to +23 dBm; L +15 to +23 dBm
Downconverter input ranges	1–6 GHz; 1–18 GHz; 1.5–26.5 GHz class
Measurement accuracy	±2 dB (<1 MHz); ±4 dB (<100 MHz)
Related	E5504A (A-series); E5501B/E5502B/E5503B lower max carriers

E5504B Specifications

PARAMETER	VALUE
Applications	Microwave oscillator and synthesizer PN; ATE and R&D absolute/residual PN and AM noise to 26.5 GHz.
Key Features	- Carrier frequency: 50 kHz to 26.5 GHz
Technical Specifications	Model: E5504B
Frequency	Carrier: 50 kHz–26.5 GHz
Operational Notes	Prefer Agilent E5500 datasheet 5989-0851 / config guide 5988-9891.

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	E5504B
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Phase Noise Measurement Solution
Family	E5500 B-Series
Alias	E5504B; Agilent E5504B

Frequency

Carrier: 50 kHz–26.5 GHz

Offset: 0.01 Hz–100 MHz (B-series)

Operational Notes

Prefer Agilent E5500 datasheet 5989-0851 / config guide 5988-9891.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 5, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.