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Data Sheet

August 5, 2026

KEYSIGHT

Keysight (Agilent) E4421B ESG-A Series Analog RF Signal Generator, 3 GHz

Keysight (Agilent) E4421B ESG-A Series Analog RF Signal Generator, 3 GHz The Keysight/Agilent E4421B is an ESG-A Series analog RF signal generator covering 250 kHz to 3 GHz. Provides CW and analog modulation (AM/FM/ΦM/pulse) for general-purpose RF stimulus. Analog-only ESG-A (not ESG-D digital I/Q models). Receiver testing; LO substitution; general-purpose RF signal generation to 3 GHz. The Keysight/Agilent E4421B is an ESG-A Series analog RF signal generator covering 250 kHz to 3 GHz. Provides CW and analog modulation (AM/FM/ΦM/pulse) for general-purpose RF stimulus. Analog-only ESG-A (not ESG-D digital I/Q models). Receiver testing; LO substitution; general-purpose RF signal generation to 3 GHz.

No photo

MODEL

Keysight E4421B

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

E4421B

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

- Frequency: 250 kHz to 3 GHz
- ESG-A Series analog modulation
- Step/list sweep of frequency and power
- SSB phase noise class (ESG-A): better than about -104 dBc/Hz at 3 GHz (published family tables at 20 kHz offset class)
- GPIB control

E4421B Characteristics / Specifications

PARAMETER	VALUE
Model	E4421B
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Analog RF Signal Generator
Family	ESG-A Series
Alias	E4421B; Agilent E4421B Frequency
Range	250 kHz to 3 GHz Modulation AM, FM, phase modulation, pulse (ESG-A analog feature set) Phase Noise (ESG-A published class examples)
At 3 GHz	< -104 dBc/Hz (family table)
At 1 GHz	< -116 dBc/Hz (family table) Operational Notes ESG-D digital sibling at 3 GHz is E4432B. Prefer Agilent ESG-A/ESG-D datasheet for full level and spur tables.
Frequency	250 kHz to 3 GHz
SSB phase noise class (ESG-A)	better than about -104 dBc/Hz at 3 GHz (published family tables at 20 kHz offset class)

E4421B Specifications

PARAMETER	VALUE
Applications	Receiver testing; LO substitution; general-purpose RF signal generation to 3 GHz.
Key Features	- Frequency: 250 kHz to 3 GHz
Technical Specifications	Model: E4421B
Operational Notes	ESG-D digital sibling at 3 GHz is E4432B. Prefer Agilent ESG-A/ESG-D datasheet for full level and spur tables.

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	E4421B
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Analog RF Signal Generator
Family	ESG-A Series
Alias	E4421B; Agilent E4421B

Frequency

Range: 250 kHz to 3 GHz

Modulation

AM, FM, phase modulation, pulse (ESG-A analog feature set)

Phase Noise (ESG-A published class examples)

At 3 GHz: < -104 dBc/Hz (family table)

At 1 GHz: < -116 dBc/Hz (family table)

Operational Notes

ESG-D digital sibling at 3 GHz is E4432B. Prefer Agilent ESG-A/ESG-D datasheet for full level and spur tables.

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.