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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E5072A

Keysight / Agilent E5072A ENA Series Network Analyzer 30 kHz to 8.5 GHz The Keysight/Agilent E5072A is an ENA Series 2-port network analyzer with a configurable test set covering 30 kHz to 4.5 GHz (option 245) or 30 kHz to 8.5 GHz (option 285). OEM data sheet 5990-8002 rates system dynamic range of 123 dB from 10 MHz to 6 GHz at 10 Hz IFBW, extended dynamic range up to 151 dB via direct receiver access, and source power up to +16 dBm specified / +20 dBm SPD class. High-power amplifier and filter test, high-dynamic-range passive characterization, and configurable-test-set component measurements on the ENA platform. The Keysight/Agilent E5072A is an ENA Series 2-port network analyzer with a configurable test set covering 30 kHz to 4.5 GHz (option 245) or 30 kHz to 8.5 GHz (option 285). OEM data sheet 5990-8002 rates system dynamic range of 123 dB from 10 MHz to 6 GHz at 10 Hz IFBW, extended dynamic range up to 151 dB via direct receiver access, and source power up to +16 dBm specified / +20 dBm SPD class. High-power amplifier and filter test, high-dynamic-range passive characterization, and configurable-test-set component measurements on the ENA platform.

**MODEL****Agilent / Keysight
E5072A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****E5072A****LISTING**<https://aumictechlabs.com/products/e5072a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight E5072A is a 2-port network analyzer built for RF component characterization across R&D and manufacturing environments. It delivers dynamic range to 151 dB with direct receiver

access and measurement speeds as fast as 7 milliseconds for full 2-port calibration at 401 points. The configurable test set provides direct access to internal signal paths - source, receivers, and bridges - enabling specialized measurements and external component integration. This architecture supports full performance characterization of passive and active components including antennas, filters, and high-power amplifiers, with single power-sweep capability for nonlinear device analysis.

Technical Specifications

Frequency Range: 30 kHz to 4.5 GHz (Option 245); 30 kHz to 8.5 GHz (Option 285)

Dynamic Range: Up to 130 dB; 151 dB with direct receiver access; 98 dB system dynamic range under specified boundary conditions

Output Power: -85 to +16 dBm leveled (300 kHz to 3 GHz); up to +20 dBm from test port (300 kHz to 1 GHz); 65 dB power sweep range

Measurement Speed: 7 ms (full 2-port calibration, 401 points); 33 ms (IFBW = 100 kHz, 200 MHz span, 1601 points)

Temperature Stability: 0.005 dB/°C

Trace Noise: 0.004 dB rms (IFBW = 70 kHz)

Display: 10.4-in

Ports: 2

Key Features

- Direct receiver access for extended dynamic range measurements
- Configurable test set with access to source, receiver, and bridge signal paths
- S-parameter, time-domain, and frequency-domain measurement capability
- Passive Intermodulation (PIM) measurement combined with S-parameter analysis
- Nonlinear device characterization via single power sweep
- High-power measurement support for real-condition device testing

Typical Applications

- Active and passive RF component characterization
- Filter and antenna performance validation
- High-power amplifier testing
- Time-domain reflectometry and impedance analysis
- PIM detection in passive networks

Compatibility & Integration

- 100% code compatible with E5071C (firmware revision 9.61 or earlier)
- Code emulation tool (cXL) for 8753ES migration
- USB and GPIB interfaces
- VBA (Visual Basic for Applications) support for automation and custom interfaces
- Power meter control via 82357B interface

E5072A Characteristics / Specifications

PARAMETER	VALUE
Model	E5072A
Instrument Type	ENA RF network analyzer
Ports	2-port configurable test set
Frequency Range Option 2	30 kHz to 4.5 GHz
Frequency Resolution	1 Hz
System Dynamic Range 10 Mhz To 6 Ghz 3 Khz Ifbw	98 dB
System Dynamic Range 10 Mhz To 6 Ghz 10 Hz Ifbw	123 dB (130 dB SPD)
System Dynamic Range 6 To 8.5 Ghz 10 Hz Ifbw	117 dB (128 dB SPD)
Extended Dynamic Range 10 Mhz To 3 Ghz 10 Hz	151 dB at direct receiver access
Extended Dynamic Range 3 To 6 Ghz 10 Hz	147 dB
Extended Dynamic Range 6 To 8.5 Ghz 10 Hz	145 dB
Max Output Power Spec Class	+16 dBm
Max Output Power Spd Class	+20 dBm
Source Power Range Spec Class	-85 to +16 dBm
Source Stability Standard	+/-7 ppm (5 to 40 C)
Source Stability High Stability 1e	+/-1 ppm (5 to 40 C); +/-0.5 ppm/year
If Bandwidth Range	10 Hz to 500 kHz
Measurement Speed Class	23 ms class at 500 kHz IFBW full 2-port cal example
Bias Tee Current Class	200 mA class published overview
Display	ENA color LCD class
Interfaces	GPIB LAN USB handler I/O class
Chassis Form	benchtop ENA network analyzer

PARAMETER	VALUE
Bandwidth	Range: 10 Hz to 500 kHz

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	E5072A
Instrument Type	ENA RF network analyzer
Ports	2-port configurable test set
Frequency Range Option 245	30 kHz to 4.5 GHz
Frequency Range Option 285	30 kHz to 8.5 GHz
Frequency Resolution	1 Hz

System Dynamic Range 10 Mhz To 6 Ghz 3 Khz Ifbw: 98 dB
System Dynamic Range 10 Mhz To 6 Ghz 10 Hz Ifbw: 123 dB (130 dB SPD)
System Dynamic Range 6 To 8.5 Ghz 10 Hz Ifbw: 117 dB (128 dB SPD)
Extended Dynamic Range 10 Mhz To 3 Ghz 10 Hz: 151 dB at direct receiver access
Extended Dynamic Range 3 To 6 Ghz 10 Hz: 147 dB
Extended Dynamic Range 6 To 8.5 Ghz 10 Hz: 145 dB

Specifications

PARAMETER	VALUE
Max Output Power Spec Class	+16 dBm
Max Output Power Spd Class	+20 dBm
Source Power Range Spec Class	-85 to +16 dBm
Source Stability Standard	+/-7 ppm (5 to 40 C)
Source Stability High Stability 1e5	+/-1 ppm (5 to 40 C); +/-0.5 ppm/year
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Notes

From Keysight E5072A ENA Series Network Analyzer data sheet 5990-8002. Dynamic-range figures assume stated IFBW, calibration, and 23+/-5 C conditions; typical performance may vary 60-70 kHz.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

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.