Aumictech
Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N5290A MM-Wave Network Analyzer, 900 Hz to 110 GHz

Lfe Maximum Power 900 Hz To 1 Khz: +4 dBm specification, +11 dBm typical Power Traceability: power measurements traceable to 110 GHzSParameter Traceability: S-parameters traceable to 110 GHz Controller: N5292A millimeter-wave test set controller Numeric rows from Keysight N5290A Technical Specifications (synthesizer revision 6 or earlier) Tables 1, 2, 3, 5, and 6, plus configuration guide 5992-2179. Full-system calibration applies to the five factory options; other builds are typical. Power Traceability: power measurements traceable to 110 GHzSParameter Traceability: S-parameters traceable to 110 GHz Controller: N5292A millimeter-wave test set controller Numeric rows from Keysight N5290A Technical Specifications (synthesizer revision 6 or earlier) Tables 1, 2, 3, 5, and 6, plus configuration guide 5992-2179. Full-system calibration applies to the five factory options; other builds are typical.

MODEL **Agilent / Keysight N5290A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **N5290A**	LISTING **https://aumictechlabs.com/products/n5290a-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N5290A is a network analyzer designed for accurate and efficient testing of RF and microwave components and systems. It has a wide frequency range and advanced

measurement capabilities, making it suitable for research, development, and manufacturing applications. Its features include advanced calibration techniques, multiple measurement channels, and a user-friendly interface.

N5290A Characteristics / Specifications

PARAMETER	VALUE
Model	N5290A
Instrument Type	Broadband millimeter-wave vector network analyzer
Series Family	Keysight N5290A/N5291A
Frequency Range Standard	900 Hz to 110 GHz
Frequency Range Typical Documented	500 Hz to 110 GHz typical data where shown
Test Port Connector	1.0 mm throughout the frequency range
Extender Module	N5293AX03, 900 Hz to 110 GHz, LFE with bias tee, 1.2 m cable
Lfe Dynamic Range 10 Mhz To 50 Mhz	99/100 dB specification, 107 dB typical
System Dynamic Range 60 Ghz To 64 Ghz	114 dB specification, ports 1 and 3 and ports 2 and 4
System Dynamic Range 64 Ghz To 67 Ghz	110 dB specification
System Dynamic Range 95 Ghz To 100 Ghz	105 dB specification
System Dynamic Range 100 Ghz To 105 Ghz	103 dB specification
System Dynamic Range 105 Ghz To 110 Ghz	104 dB specification, 114 dB typical
Lfe Dynamic Range 900 Hz To 1 Khz	93 dB specification, 103/104 dB typical
Lfe Dynamic Range 100 Khz To 1 Mhz	115/117 dB specification, 121/122 dB typical
Receiver Dynamic Range 105 Ghz To 110 Ghz	109 dB typical
Maximum Power 10 Mhz To 50 Mhz	0 dBm specification, +9 dBm typical, ports 1 and 3
Maximum Power 1 Ghz To 2 Ghz	+10 dBm specification, +13 dBm typical
Maximum Power 64 Ghz To 67 Ghz	+1 dBm specification, +5 dBm typical
Maximum Power 105 Ghz To 110 Ghz	0 dBm specification, +2 dBm typical
Lfe Maximum Power 900 Hz To 1 Khz	+4 dBm specification, +11 dBm typical

PARAMETER	VALUE
Power Traceability	power measurements traceable to 110 GHzSParameter Traceability: S-parameters traceable to 110 GHz
Controller	N5292A millimeter-wave test set controller

N5290A Specifications

PARAMETER	VALUE
Key Features	Single 1.0 mm coaxial path from 900 Hz to 110 GHz
Optional LFE hardware for measurements below 10 MHz	Optional Kelvin bias tees in N5293AX03 extenders
Technical Specifications	Model: N5290A

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 (synthesizer revision 6 or earlier) and configuration guide 5992-2179 list 1.0 mm test ports through the full range, N5293AX03 frequency extenders, and N5292A millimeter-wave test-set control.

Applications
On-wafer and coaxial broadband S-parameters from RF through W-band; 5G/6G device characterization; single-connection tests that avoid breaking 1.0 mm ports.

Key Features
Single 1.0 mm coaxial path from 900 Hz to 110 GHz
PNA or PNA-X measurement engine with N5292A controller
Optional LFE hardware for measurements below 10 MHz
Optional Kelvin bias tees in N5293AX03 extenders
Factory interconnect kits for 2-port and 4-port options

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	N5290A
Instrument Type	Broadband millimeter-wave vector network analyzer
Series Family	Keysight N5290A/N5291A
Frequency Range Standard	900 Hz to 110 GHz
Frequency Range Typical Documented	500 Hz to 110 GHz typical data where shown
Test Port Connector	1.0 mm throughout the frequency range
Extender Module	N5293AX03, 900 Hz to 110 GHz, LFE with bias tee, 1.2 m cable

Lfe Dynamic Range 10 Mhz To 50 Mhz: 99/100 dB specification, 107 dB typical
System Dynamic Range 60 Ghz To 64 Ghz: 114 dB specification, ports 1 and 3 and ports 2 and 4
System Dynamic Range 64 Ghz To 67 Ghz: 110 dB specification
System Dynamic Range 95 Ghz To 100 Ghz: 105 dB specification
System Dynamic Range 100 Ghz To 105 Ghz: 103 dB specification
System Dynamic Range 105 Ghz To 110 Ghz: 104 dB specification, 114 dB typical
Lfe Dynamic Range 900 Hz To 1 Khz: 93 dB specification, 103/104 dB typical
Lfe Dynamic Range 100 Khz To 1 Mhz: 115/117 dB specification, 121/122 dB typical
Receiver Dynamic Range 105 Ghz To 110 Ghz: 109 dB typical

Specifications

PARAMETER	VALUE
Maximum Power 10 Mhz To 50 Mhz	0 dBm specification, +9 dBm typical, ports 1 and 3
Maximum Power 1 Ghz To 2 Ghz	+10 dBm specification, +13 dBm typical
Maximum Power 64 Ghz To 67 Ghz	+1 dBm specification, +5 dBm typical
Maximum Power 105 Ghz To 110 Ghz	0 dBm specification, +2 dBm typical

Lfe Maximum Power 900 Hz To 1 Khz: +4 dBm specification, +11 dBm typical
Power Traceability: power measurements traceable to 110 GHzSParameter Traceability: S-parameters traceable to 110 GHz
Controller: N5292A millimeter-wave test set controller

Notes
Numeric rows from Keysight N5290A Technical Specifications (synthesizer revision 6 or earlier) Tables 1, 2, 3, 5, and 6, plus configuration guide 5992-2179. Full-system calibration applies to the five factory options; other builds are typical.

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
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 14, 2026