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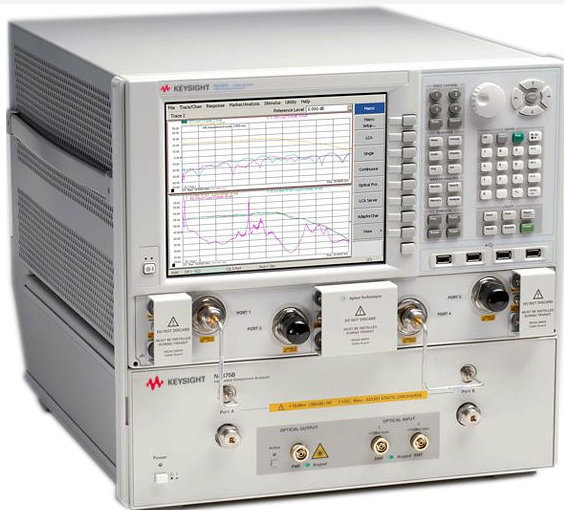
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N4375D 26.5 GHz single-mode Lightwave Component Analyzer

Agilent Keysight N4375D 26.5 GHz Lightwave Component Analyzer The Keysight N4375D is a 26.5 GHz single-mode lightwave component analyzer pairing an optical test set with an N5222A PNA. OEM N4375D data sheet lists 10 MHz to 26.5 GHz modulation, 1310 nm and 1550 nm internal sources, NIST-traceable factory calibration, and E/O noise floor of minus 86 dB W/A at 20 GHz. 10GbE and Fibre Channel FCx8/FCx10/FCx16 electro-optical S21; TOSA/ROSA and modulator bandwidth; PIN/APD responsivity versus frequency. The Keysight N4375D is a 26.5 GHz single-mode lightwave component analyzer pairing an optical test set with an N5222A PNA. OEM N4375D data sheet lists 10 MHz to 26.5 GHz modulation, 1310 nm and 1550 nm internal sources, NIST-traceable factory calibration, and E/O noise floor of minus 86 dB W/A at 20 GHz. 10GbE and Fibre Channel FCx8/FCx10/FCx16 electro-optical S21; TOSA/ROSA and modulator bandwidth; PIN/APD responsivity versus frequency. NIST-traceable turnkey E/O, O/E, and O/O S-parameter system



MODEL

**Agilent / Keysight
N4375D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N4375D

LISTING

<https://aumictechlabs.com/products/n4375d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight N4375D is a network analyzer that delivers performance for characterizing electronic components and systems. It has a wide frequency range, high dynamic range, and fast measurement speeds. Its advanced error correction techniques ensure accurate and repeatable measurements, making it an essential tool for engineers and technicians.

Features & description

From manufacturer datasheet

Built-in average optical power meter

Optional rear PMF external-source input Option 050 Technical Specifications Model: N4375D
Instrument Type: Lightwave component analyzer Series Family: Keysight N437xD LCA Operating
Frequency Range: 10 MHz to 26.5 GHz Relative Frequency Response Uncertainty Typical: ± 0.5 dB at 20
GHz typical Absolute Frequency Response Uncertainty Typical: ± 1.5 dB at 20 GHz typical Eo Noise
Floor At 20 Ghz: minus 86 dB W/A Oe Noise Floor At 20 Ghz: minus 76 dB A/W Phase Uncertainty
Typical: ± 2.0 deg typical Transmitter Wavelength 1550: 1550 nm ± 20 nm Transmitter Wavelength 1310:
1310 nm ± 20 nm External Source Wavelength Range: 1290 nm to 1610 nm Optical Input Wavelength
Range: 1250 nm to 1640 nm Maximum Linear Input Optical Input 1: +4 dBm Maximum Linear Input
Optical Input 2: +14 dBm Maximum Safe Input Optical Input 1: +7 dBm Maximum Safe Input Optical
Input 2: +17 dBm Optical Return Loss Typical: greater than 27 dBo typical Average Output Power
Range: minus 2 dBm to +4 dBm Average Output Power Uncertainty Typical: ± 0.5 dBo typical Omi At 10
Ghz Typical: greater than 27 percent at +5 dBm RF; greater than 47 percent at +10 dBm RF
Connector: 3.5 mm male Maximum Safe Rf Input: +15 dBm RF, 7 V DC at portAorB Warm Up Time: 90
minutes

N4375D Characteristics / Specifications

PARAMETER	VALUE
Model	N4375D
Instrument Type	Lightwave component analyzer
Series Family	Keysight N437xD LCA
Operating Frequency Range	10 MHz to 26.5 GHz
Relative Frequency Response Uncertainty Typical	±0.5 dB at 20 GHz typical
Absolute Frequency Response Uncertainty Typical	±1.5 dB at 20 GHz typical
Eo Noise Floor At 20 Ghz	minus 86 dB W/A
Oe Noise Floor At 20 Ghz	minus 76 dB A/W
Phase Uncertainty Typical	±2.0 deg typical
Transmitter Wavelength 15	1550 nm ±20 nm
Transmitter Wavelength 13	1310 nm ±20 nm
External Source Wavelength Range	1290 nm to 1610 nm
Optical Input Wavelength Range	1250 nm to 1640 nm
Maximum Linear Input Optical Input	+14 dBm
Maximum Safe Input Optical Input	+17 dBm
Optical Return Loss Typical	greater than 27 dBo typical
Average Output Power Range	minus 2 dBm to +4 dBm
Average Output Power Uncertainty Typical	±0.5 dBo typical
Omi At 10 Ghz Typical	greater than 27 percent at +5 dBm RF; greater than 47 percent at +10 dBm RF
Rf Connector	3.5 mm male
Maximum Safe Rf Input	+15 dBm RF, 7 V DC at portAorBWarm Up Time: 90 minutes
Specified Temperature Range	+20 C to +26 C
Wavelength range	1290 nm to 1610 nm

PARAMETER	VALUE
Optical Return Loss	Typical: greater than 27 dBo typical
Return loss	Typical: greater than 27 dBo typical

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	
Technical Specifications	
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Oe Noise Floor At 20 Ghz	minus 76 dB A/W
Phase Uncertainty Typical	±2.0 deg typical
Transmitter Wavelength 1550	1550 nm ±20 nm
Transmitter Wavelength 1310	1310 nm ±20 nm
External Source Wavelength Range	1290 nm to 1610 nm
Optical Input Wavelength Range	1250 nm to 1640 nm
Maximum Linear Input Optical Input 1	+4 dBm
Maximum Linear Input Optical Input 2	+14 dBm
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Rf Connector	3.5 mm male
Maximum Safe Rf Input	+15 dBm RF, 7 V DC at port A or B
Warm Up Time	90 minutes

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Notes

Numeric rows from Keysight N4375D 26.5 GHz Single-Mode Lightwave Component Analyzer data sheet. Specs assume 100 Hz IFBW, +5 dBm forward RF, N4691B ECal, and internal laser unless noted.

Ordering Information

OPTION	DESCRIPTION
Option 050	Technical Specifications

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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NIST-traceable calibration · SAM registered ·
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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.