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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N4373D Lightwave Component Analyzer - Single Mode; Straight FC/PC SM

Agilent Keysight N4373D 43.5/50/67 GHz Lightwave Component Analyzer The Keysight N4373D is a single-mode lightwave component analyzer for 40G/100GbE and coherent 400G/1 Tbit/s electro-optical tests. OEM N4373D data sheet lists modulation bandwidth 10 MHz to 43.5, 50, or 67 GHz depending on the N5224A/N5225A/N5227A PNA, typical relative uncertainty ± 0.8 dB at 50 GHz and ± 1.3 dB at 65 GHz, and 1310/1550 nm internal transmitters. 56 Gbaud coherent modulator and receiver characterization; Radio-over-Fiber; aerospace electro-optical S-parameter tests to 67 GHz. The Keysight N4373D is a single-mode lightwave component analyzer for 40G/100GbE and coherent 400G/1 Tbit/s electro-optical tests. OEM N4373D data sheet lists modulation bandwidth 10 MHz to 43.5, 50, or 67 GHz depending on the N5224A/N5225A/N5227A PNA, typical relative uncertainty ± 0.8 dB at 50 GHz and ± 1.3 dB at 65 GHz, and 1310/1550 nm internal transmitters. 56 Gbaud coherent modulator and receiver characterization; Radio-over-Fiber; aerospace electro-optical S-parameter tests to 67 GHz. Optional external optical source input for customer wavelengths



MODEL

**Agilent / Keysight
N4373D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N4373D

LISTING

<https://aumictechlabs.com/products/n4373d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight N4373D lightwave component analyzer offers a wide range of measurement capabilities for characterizing optical components. It supports S-parameter measurements up to 67 GHz, enabling detailed analysis of component performance. The analyzer also features advanced calibration techniques to ensure accurate and reliable results. With its user-friendly interface and comprehensive analysis tools, the N4373D simplifies the testing process and provides valuable insights into the behavior of optical devices.

Features & description

From manufacturer datasheet

Built-in average optical power meter

Common N437xD software and remote control Technical Specifications Model: N4373D Instrument Type: Lightwave component analyzer Series Family: Keysight N437xD LCA Frequency Range With N5227A: 10 MHz to 67 GHz Frequency Range With N5225A: 10 MHz to 50 GHz Frequency Range With N5224A: 10 MHz to 43.5 GHz Relative Frequency Response Uncertainty 50 GHz: ± 0.8 dB typical at 50 GHz Relative Frequency Response Uncertainty 65 GHz: ± 1.3 dB typical at 65 GHz Absolute Frequency Response Uncertainty 50 GHz: ± 1.2 dB typical at 50 GHz Absolute Frequency Response Uncertainty 65 GHz: ± 1.8 dB typical at 65 GHz Oe Noise Floor 50 GHz: minus 60 dB A/W at 50 GHz; minus 55 dB A/W at 65 GHz Eo Noise Floor 50 GHz: minus 64 dB W/A at 50 GHz; minus 59 dB W/A at 65 GHz Phase Uncertainty Typical: ± 2.3 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: 1290 nm to 1610 nm excluding water absorption Maximum Linear Input Optical Input 1: +4 dBm at 1310 nm; +5 dBm at 1550 nm Maximum Linear Input Optical Input 2: +14 dBm at 1310 nm; +15 dBm at 1550 nm Maximum Safe Input Optical Input 1: +7 dBm

N4373D Characteristics / Specifications

PARAMETER	VALUE
Model	N4373D
Instrument Type	Lightwave component analyzer
Series Family	Keysight N437xD LCA
Frequency Range With N5227A	10 MHz to 67 GHz
Frequency Range With N5225A	10 MHz to 50 GHz
Frequency Range With N5224A	10 MHz to 43.5 GHz
Relative Frequency Response Uncertainty 50 Ghz	±0.8 dB typical at 50 GHz
Relative Frequency Response Uncertainty 65 Ghz	±1.3 dB typical at 65 GHz
Absolute Frequency Response Uncertainty 50 Ghz	±1.2 dB typical at 50 GHz
Absolute Frequency Response Uncertainty 65 Ghz	±1.8 dB typical at 65 GHz
Oe Noise Floor 50 Ghz	minus 60 dB A/W at 50 GHz; minus 55 dB A/W at 65 GHz
Eo Noise Floor 50 Ghz	minus 64 dB W/A at 50 GHz; minus 59 dB W/A at 65 GHz
Phase Uncertainty Typical	±2.3 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	1290 nm to 1610 nm excluding water absorption
Maximum Linear Input Optical Input	+14 dBm at 1310 nm; +15 dBm at 1550 nm
Maximum Safe Input Optical Input	+17 dBm
Average Output Power Range 1550 Nm	minus 1 dBm to +5 dBm
Average Output Power Range 1310 Nm	minus 2 dBm to +4 dBm
Omi At 10 Ghz Typical	greater than 27 percent at +5 dBm RF; greater than 47 percent at +10 dBm RF

PARAMETER	VALUE
External Source Recommended Power	+8 to +15 dBm
External Source Damage Level	+20 dBm
Maximum Safe Rf Input	+15 dBm RF, 7 V DC
Wavelength range	1290 nm to 1610 nm

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	N4373D
Instrument Type	Lightwave component analyzer
Series Family	Keysight N437xD LCA
Frequency Range With N5227A	10 MHz to 67 GHz
Frequency Range With N5225A	10 MHz to 50 GHz
Frequency Range With N5224A	10 MHz to 43.5 GHz
Relative Frequency Response Uncertainty 50 Ghz	±0.8 dB typical at 50 GHz
Relative Frequency Response Uncertainty 65 Ghz	±1.3 dB typical at 65 GHz
Absolute Frequency Response Uncertainty 50 Ghz	±1.2 dB typical at 50 GHz
Absolute Frequency Response Uncertainty 65 Ghz	±1.8 dB typical at 65 GHz
Oe Noise Floor 50 Ghz	minus 60 dB A/W at 50 GHz; minus 55 dB A/W at 65 GHz
Eo Noise Floor 50 Ghz	minus 64 dB W/A at 50 GHz; minus 59 dB W/A at 65 GHz
Phase Uncertainty Typical	±2.3 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	1290 nm to 1610 nm excluding water absorption
Maximum Linear Input Optical Input 1	+4 dBm at 1310 nm; +5 dBm at 1550 nm
Maximum Linear Input Optical Input 2	+14 dBm at 1310 nm; +15 dBm at 1550 nm
Maximum Safe Input Optical Input 1	+7 dBm
Maximum Safe Input Optical Input 2	+17 dBm
Average Output Power Range 1550 Nm	minus 1 dBm to +5 dBm
Average Output Power Range 1310 Nm	minus 2 dBm to +4 dBm

PARAMETER	VALUE
Omi At 10 Ghz Typical	greater than 27 percent at +5 dBm RF; greater than 47 percent at +10 dBm RF
External Source Recommended Power	+8 to +15 dBm
External Source Damage Level	+20 dBm
Maximum Safe Rf Input	+15 dBm RF, 7 V DC

Notes
Numeric rows from Keysight 43.5/50/67 GHz Single-Mode Lightwave Component Analyzer for 40/100G Electro-Optical Test data sheet (N4373D). Bandwidth follows the installed N5224A, N5225A, or N5227A PNA option.

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 ·
30-day returns
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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.