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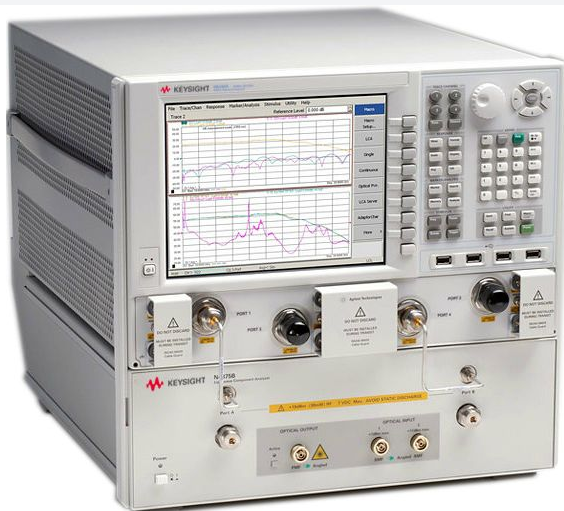
**Data Sheet**

August 14, 2026

AGILENT / KEYSIGHT

# Agilent/Keysight N4375E Lightwave Component Analyzer

Specified Temperature Family: plus 20 C to plus 26 C class of N4375 LCA Remote Control: LAN .NET/COM or SCPI, identical across N437xB/C/D/E Literature: Keysight 26.5 GHz Single-Mode Fiber LCA data sheet 5992-3396 (N4375E) Balanced Measurements: true-mode balanced with 4-port dual-source PNA Remote Control: LAN .NET/COM or SCPI, identical across N437xB/C/D/E Literature: Keysight 26.5 GHz Single-Mode Fiber LCA data sheet 5992-3396 (N4375E) Balanced Measurements: true-mode balanced with 4-port dual-source PNA Measurements: E/O, O/E, O/O, and E/E S-parameters



MODEL

**Agilent / Keysight  
N4375E**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**N4375E**

LISTING

<https://aumictechlabs.com/products/n4375e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Agilent/Keysight N4375E is a network analyzer that provides precise and reliable measurements for a variety of network devices. With its wide frequency range, it enables comprehensive testing of components and systems. Its advanced features, such as time-domain analysis and impedance measurements, allow for in-depth characterization of network performance.

## Features & description

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From manufacturer datasheet

### Built-in average optical power meter

Option 050 auxiliary PMF input for external wavelength Technical Specifications Instrument Type: Lightwave component analyzer Series Family: Keysight N437xE LCA Operating Frequency Range: 10 MHz to 26.5 GHz Host Pna: N5222B 2-port or 4-port Omi: above 50 percent (high RF output power, OEM N4375E literature) Transmitter Wavelength 1550 Family: 1550 nm plus or minus 20 nm Transmitter Wavelength 1310 Family: 1310 nm plus or minus 20 nm External Source Option 050: auxiliary PMF input for IEEE 802.3 / MSA wavelengths Optical Input Wavelength Family: 1250 nm to 1640 nm class of 26.5 GHz SM LCA Relative Uncertainty Family At 20 Ghz: plus or minus 0.5 dB typical at 20 GHz (N4375D table; confirm N4375E spec table) Absolute Uncertainty Family At 20 Ghz: plus or minus 1.5 dB typical at 20 GHz (N4375D table; confirm N4375E spec table) Eo Noise Floor Family 20 Ghz: minus 86 dB W/A at 20 GHz (N4375D; confirmErevision table) Oe Noise Floor Family 20 Ghz: minus 76 dB A/W at 20 GHz (N4375D; confirmErevision table) Maximum Safe Rf Input Family: plus 15 dBm RF, 7 V DC Rf Connector Family: 3.5 mm male Warm Up Family: 90 minutes class of N4375 LCA Specified Temperature Family: plus 20 C to plus 26 C class of N4375 LCA

## N4375E Characteristics / Specifications

| PARAMETER                             | VALUE                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------|
| Instrument Type                       | Lightwave component analyzer                                                     |
| Series Family                         | Keysight N437xE LCA                                                              |
| Operating Frequency Range             | 10 MHz to 26.5 GHz                                                               |
| Host Pna                              | N5222B 2-port or 4-port                                                          |
| Omi                                   | above 50 percent (high RF output power, OEM N4375E literature)                   |
| Transmitter Wavelength 1550 Family    | 1550 nm plus or minus 20 nm                                                      |
| Transmitter Wavelength 1310 Family    | 1310 nm plus or minus 20 nm                                                      |
| External Source Option 0              | auxiliary PMF input for IEEE 802.3 / MSA wavelengths                             |
| Optical Input Wavelength Family       | 1250 nm to 1640 nm class of 26.5 GHz SM LCA                                      |
| Relative Uncertainty Family At 20 Ghz | plus or minus 0.5 dB typical at 20 GHz (N4375D table; confirm N4375E spec table) |
| Absolute Uncertainty Family At 20 Ghz | plus or minus 1.5 dB typical at 20 GHz (N4375D table; confirm N4375E spec table) |
| Eo Noise Floor Family 20 Ghz          | minus 86 dB W/A at 20 GHz (N4375D; confirm Erevision table)                      |
| Oe Noise Floor Family 20 Ghz          | minus 76 dB A/W at 20 GHz (N4375D; confirm Erevision table)                      |
| Maximum Safe Rf Input Family          | plus 15 dBm RF, 7 V DC                                                           |
| Rf Connector Family                   | 3.5 mm male                                                                      |
| Warm Up Family                        | 90 minutes class of N4375 LCA                                                    |
| Specified Temperature Family          | plus 20 C to plus 26 C class of N4375 LCA                                        |
| Remote Control                        | LAN .NET/COM or SCPI, identical across N437xB/C/D/E                              |
| Literature                            | Keysight 26.5 GHz Single-Mode Fiber LCA data sheet 5992-3396 (N4375E)            |
| Balanced Measurements                 | true-mode balanced with 4-port dual-source PNA                                   |
| Measurements                          | E/O, O/E, O/O, and E/E S-parameters                                              |
| Form Factor                           | integrated optical test set plus PNA-B                                           |
| Target Rates                          | 10, 40, and 100 Gbit/s transmission components                                   |

# N4375E Specifications

| PARAMETER                | VALUE                                                                                |
|--------------------------|--------------------------------------------------------------------------------------|
| Applications             | TOSA/ROSA, MZM/EAM, PIN-TIA, and amplifier E/E S-parameters from 10 MHz to 26.5 GHz. |
| Key Features             | N5222B 2-port or 4-port PNA-B engine                                                 |
| Technical Specifications | Instrument Type: Lightwave component analyzer                                        |

# 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                                                                            |
| Instrument Type                                                                                               | Lightwave component analyzer                                                     |
| Series Family                                                                                                 | Keysight N437xE LCA                                                              |
| Operating Frequency Range                                                                                     | 10 MHz to 26.5 GHz                                                               |
| Host Pna                                                                                                      | N5222B 2-port or 4-port                                                          |
| Omi                                                                                                           | above 50 percent (high RF output power, OEM N4375E literature)                   |
| Transmitter Wavelength 1550 Family                                                                            | 1550 nm plus or minus 20 nm                                                      |
| Transmitter Wavelength 1310 Family                                                                            | 1310 nm plus or minus 20 nm                                                      |
| External Source Option 050                                                                                    | auxiliary PMF input for IEEE 802.3 / MSA wavelengths                             |
| Optical Input Wavelength Family                                                                               | 1250 nm to 1640 nm class of 26.5 GHz SM LCA                                      |
| Relative Uncertainty Family At 20 Ghz                                                                         | plus or minus 0.5 dB typical at 20 GHz (N4375D table; confirm N4375E spec table) |
| Absolute Uncertainty Family At 20 Ghz                                                                         | plus or minus 1.5 dB typical at 20 GHz (N4375D table; confirm N4375E spec table) |
| Eo Noise Floor Family 20 Ghz                                                                                  | minus 86 dB W/A at 20 GHz (N4375D; confirmErevision table)                       |
| Oe Noise Floor Family 20 Ghz                                                                                  | minus 76 dB A/W at 20 GHz (N4375D; confirmErevision table)                       |
| Maximum Safe Rf Input Family                                                                                  | plus 15 dBm RF, 7 V DC                                                           |
| Rf Connector Family                                                                                           | 3.5 mm male                                                                      |
| Warm Up Family                                                                                                | 90 minutes class of N4375 LCA                                                    |
| Specified Temperature Family                                                                                  | plus 20 C to plus 26 C class of N4375 LCA                                        |
| Remote Control                                                                                                | LAN .NET/COM or SCPI, identical across N437xB/C/D/E                              |
| Literature                                                                                                    | Keysight 26.5 GHz Single-Mode Fiber LCA data sheet 5992-3396 (N4375E)            |
| Balanced Measurements                                                                                         | true-mode balanced with 4-port dual-source PNA                                   |
| Measurements                                                                                                  | E/O, O/E, O/O, and E/E S-parameters                                              |
| Form Factor                                                                                                   | integrated optical test set plus PNA-B                                           |
| Target Rates                                                                                                  | 10, 40, and 100 Gbit/s transmission components                                   |
| Notes                                                                                                         |                                                                                  |
| 10 MHz-26.5 GHz, N5222B host, OMI above 50 percent, and Option 050 from Keysight N4375E data sheet 5992-3396. |                                                                                  |

Typical uncertainty and noise-floor rows are the published N4375D specification table used as family reference; verify the N4375E numeric table before calibration use. Do not mix N4373E 50/67 GHz uncertainty into this model.

## Ordering Information

| OPTION     | DESCRIPTION                                 |
|------------|---------------------------------------------|
| Option 050 | auxiliary PMF input for external wavelength |

### Available from Aumictech

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

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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<https://aumictechlabs.com>

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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.