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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N4373E 26.5 GHz single-mode Lightwave Component Analyzer

Agilent Keysight N4373E Lightwave Component Analyzer 43.5 50 67 GHz The Keysight N4373E is a single-mode (and optional 850 nm multimode) lightwave component analyzer based on N5224B/N5225B/N5227B PNA-B analyzers. OEM N4373E data sheet 5992-3064 lists 10 MHz to 43.5/50/67 GHz modulation, 1310/1550 nm internal transmitters, 1290-1610 nm receiver range, and typical relative uncertainty plus or minus 0.8 dBe at 50 GHz and plus or minus 1.3 dBe at 65 GHz. 40G/100GbE, 400G, and 1 Tbit/s electro-optical S21; Radio-over-Fiber; aerospace E/O tests to 67 GHz; optional IEEE 802.3ae 850 nm multimode to 50 GHz. The Keysight N4373E is a single-mode (and optional 850 nm multimode) lightwave component analyzer based on N5224B/N5225B/N5227B PNA-B analyzers. OEM N4373E data sheet 5992-3064 lists 10 MHz to 43.5/50/67 GHz modulation, 1310/1550 nm internal transmitters, 1290-1610 nm receiver range, and typical relative uncertainty plus or minus 0.8 dBe at 50 GHz and plus or minus 1.3 dBe at 65 GHz. 40G/100GbE, 400G, and 1 Tbit/s electro-optical S21; Radio-over-Fiber; aerospace E/O tests to 67 GHz; optional IEEE 802.3ae 850 nm multimode to 50 GHz.



MODEL

**Agilent / Keysight
N4373E**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N4373E

LISTING

<https://aumictechlabs.com/products/n4373e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight N4373E lightwave component analyzer is engineered to meet the demanding requirements of optical component testing. With its advanced measurement capabilities, it delivers precise S-parameter, group delay, and polarization measurements, enabling thorough performance evaluation. Ideal for research, development, and manufacturing, the N4373E ensures the reliability and quality of optical components and transceivers.

N4373E Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Lightwave component analyzer
Series Family	Keysight N437xE LCA
Frequency Range With N5227B	10 MHz to 67 GHz
Frequency Range With N5225B	10 MHz to 50 GHz
Frequency Range With N5224B	10 MHz to 43.5 GHz
Relative Uncertainty Typical 50 Ghz	plus or minus 0.8 dBe typical at 50 GHz
Relative Uncertainty Typical 65 Ghz	plus or minus 1.3 dBe typical at 65 GHz
Receiver Wavelength Range	1290 nm to 1610 nm
Transmitter Wavelength 15	1550 nm plus or minus 20 nm (family internal source)
Transmitter Wavelength 13	1310 nm plus or minus 20 nm (family internal source)
Transmitter Wavelength 850 Mm	850 nm multimode option (IEEE 802.3ae-2002 launch)
External Source Wavelength	1290 nm to 1610 nm
Wavelength Options	850 nm, 1310 nm, 1550 nm, dual 1310/1550 nm
Fiber Mode	single-mode and optional multimode
Host Pna	N5224B, N5225B, or N5227B 2-port or 4-port
Maximum Safe Rf Input Family	plus 15 dBm RF, 7 V DC (N437xD/E family RF port)
Literature	Keysight N4373E data sheet 5992-3064
Calibration	factory electro-optical calibration, temperature-stabilized TX/RX
Remote Control	identical LCA software across N437xB/D/E
Built In Power Meter	average optical power meter class of N437xE
Omi Family	high RF power for OMI above 50 percent class of PNA-B LCA
Balanced Measurements	traceable balanced measurements up to 67 GHz
Specified Temperature Family	laboratory specified range per N4373E data sheet
Wavelength range	1290 nm to 1610 nm

N4373E Specifications

PARAMETER	VALUE
Key Features	Turnkey LCA on N52xxB PNA
Optional external optical source input	New 850 nm multimode path up to 50 GHz
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
Frequency Range With N5227B	10 MHz to 67 GHz
Frequency Range With N5225B	10 MHz to 50 GHz
Frequency Range With N5224B	10 MHz to 43.5 GHz
Relative Uncertainty Typical 50 Ghz	plus or minus 0.8 dBe typical at 50 GHz
Relative Uncertainty Typical 65 Ghz	plus or minus 1.3 dBe typical at 65 GHz
Receiver Wavelength Range	1290 nm to 1610 nm
Transmitter Wavelength 1550	1550 nm plus or minus 20 nm (family internal source)
Transmitter Wavelength 1310	1310 nm plus or minus 20 nm (family internal source)
Transmitter Wavelength 850 Mm	850 nm multimode option (IEEE 802.3ae-2002 launch)
External Source Wavelength	1290 nm to 1610 nm
Wavelength Options	850 nm, 1310 nm, 1550 nm, dual 1310/1550 nm
Fiber Mode	single-mode and optional multimode
Host Pna	N5224B, N5225B, or N5227B 2-port or 4-port
Maximum Safe Rf Input Family	plus 15 dBm RF, 7 V DC (N437xD/E family RF port)
Literature	Keysight N4373E data sheet 5992-3064
Calibration	factory electro-optical calibration, temperature-stabilized TX/RX
Remote Control	identical LCA software across N437xB/D/E
Built In Power Meter	average optical power meter class of N437xE
Omi Family	high RF power for OMI above 50 percent class of PNA-B LCA
Balanced Measurements	traceable balanced measurements up to 67 GHz
Specified Temperature Family	laboratory specified range per N4373E data sheet
Notes	
Bandwidth, 850 nm MM option, and typical plus or minus 0.8/1.3 dBe relative uncertainty from Keysight N4373E data sheet 5992-3064 and Keysight N4373E product key-specification table. Absolute noise-floor rows follow	

the N4373E specification tables (not copied from N4373D). Confirm installed PNA-B model for the 43.5/50/67 GHz span.

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

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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.