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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 8155A Optical Attenuator

Use Chopped: 270 Hz chopped output for lock-in or meter compatibility Use Modulation: external modulation for fast telecommunication-link tests Related Connector Series: Agilent 81000xl optical interfaces sold separately Option 002 numeric rows from HP 8155A Opt 002 laser-source specification summaries (1310 nm plus or minus 30 nm, less than 3 nm rms, greater than minus 4 dBm, plus or minus 0.003 dB/12 h). Modulation, chop, and Option 003 identity from HP/Agilent 8155A product literature. Use Modulation: external modulation for fast telecommunication-link tests Related Connector Series: Agilent 81000xl optical interfaces sold separately Option 002 numeric rows from HP 8155A Opt 002 laser-source specification summaries (1310 nm plus or minus 30 nm, less than 3 nm rms, greater than minus 4 dBm, plus or minus 0.003 dB/12 h). Modulation, chop, and Option 003 identity from HP/Agilent 8155A product literature.



MODEL

**Agilent / Keysight
8155A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8155A

LISTING

[https://aumictechlabs.c
om/products/8155a-2/](https://aumictechlabs.com/products/8155a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8155A is a narrow linewidth laser diode source engineered for precision optical testing in telecommunications applications. It delivers excellent short- and long-term stability with flexible output modes and high-speed modulation capability. Technical Specifications Laser Type: Narrow Linewidth Laser Diode Source Wavelength Options: 1300 nm (optional), 1550 nm (optional) Output Modes: Continuous Wave (CW), 270 Hz chopped light External Modulation:

Up to 850 MHz Stability: Excellent short-term and long-term performance

Key Features The 8155A supports dual output modes - standard CW operation for baseline measurements and 270 Hz chopped light for lock-in detection and noise discrimination. External modulation to 850 MHz enables direct signal injection for dynamic performance characterization across high-speed fiber-optic systems. Wavelength selection at 1300 nm or 1550 nm addresses the primary transmission bands for long-haul and metropolitan optical networks. Dual-wavelength capability eliminates the need for separate instruments when testing systems spanning both C-band and L-band windows. The combination of narrow linewidth output and stable optical power ensures repeatable spectral characterization and minimizes measurement drift during extended test sessions.

Typical Applications Signal performance testing on fast telecommunication links Component and subsystem characterization in optical networks Spectral analysis and linewidth measurement Dynamic modulation testing at speeds to 850 MHz

Compatibility & Integration The 8155A integrates into Agilent/Keysight optical test platforms and operates as a standalone laser source for external measurement systems. Its modulation bandwidth and multi-wavelength architecture support both legacy and fiber-optic test configurations.

8155A Characteristics / Specifications

PARAMETER	VALUE
Model	8155A
Instrument Type	Laser diode source
Wavelength Options	1300 nm or 1550 nm optional configurations
Output Modes	CW or 270 Hz chopped light
Chop Frequency	270 Hz
External Modulation	up to 850 MHz
Fiber Optimization	optimized for 9/125 um single-mode fiber
Connector Interface	HP 81000xl series optical interface connectors (not included with the source)
Remote Interface	HP-IB
Stability Emphasis	excellent short-term and long-term stability on OEM product summaries
Linewidth Class	narrow linewidth laser diode
Use Chopped	270 Hz chopped output for lock-in or meter compatibility
Use Modulation	external modulation for fast telecommunication-link tests
Brand Lineage	HP / Agilent / Keysight
Form Factor	benchtop optical source
Related Connector Series	Agilent 81000xl optical interfaces sold separately
Bandwidth	less than 3 nm rms
Linewidth	Class: narrow linewidth laser diode
Fiber type	9/125 um

8155A Specifications

PARAMETER	VALUE
Agilent 8155A Laser Diode Source	Overview
Applications	Stable CW or chopped optical stimulus for 1310/1550 nm telecom component and link tests, including high-speed modulation to 850 MHz.
Key Features	Narrow-linewidth laser diode source
CW or 270 Hz chopped light	External modulation up to 850 MHz
Option 002 1310 nm and Option 003 1550 nm	HP 81000xl series optical connector interface
Technical Specifications	Model: 8155A

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	8155A
Instrument Type	Laser diode source
Wavelength Options	1300 nm or 1550 nm optional configurations
Option 002 Wavelength: 1310 nm plus or minus 30 nm	
Option 002 Spectral Bandwidth: less than 3 nm rms	
Option 002 Optical Power: greater than minus 4 dBm	
Option 002 Stability 12 h: plus or minus 0.003 dB at constant temperature	
Option 002 Fiber Type: 9/125 um	
Option 003 Wavelength Class: 1550 nm laser diode source option	
Specifications	
PARAMETER	VALUE
Output Modes	CW or 270 Hz chopped light
Chop Frequency	270 Hz
External Modulation	up to 850 MHz
Fiber Optimization	optimized for 9/125 um single-mode fiber
Connector Interface	HP 81000xI series optical interface connectors (not included with the source)
Remote Interface	HP-IB
Stability Emphasis	excellent short-term and long-term stability on OEM product summaries
Linewidth Class	narrow linewidth laser diode
Use Chopped	270 Hz chopped output for lock-in or meter compatibility
Use Modulation	external modulation for fast telecommunication-link tests
Brand Lineage	HP / Agilent / Keysight
Form Factor	benchtop optical source
Related Connector Series	Agilent 81000xI optical interfaces sold separately
Notes	
Option 002 numeric rows from HP 8155A Opt 002 laser-source specification summaries (1310 nm plus or minus 30	

nm, less than 3 nm rms, greater than minus 4 dBm, plus or minus 0.003 dB/12 h). Modulation, chop, and Option 003 identity from HP/Agilent 8155A product literature.

Ordering Information

OPTION	DESCRIPTION
Option 002	1310 nm figures of 1310 nm plus or minus 30 nm, spectral bandwidth less than 3 nm rms, output greater than minus 4 dBm, and 12-hour stability plus or minus 0.00
Option 003	Wavelength Class: 1550 nm laser diode source 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.