

**Aumictech**

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Data Sheet

August 5, 2026

AGILENT

Agilent 8167A Tunable Laser Source

The Agilent/HP 8167A is an O-band tunable laser source covering approximately 1280–1330 nm. It provides finely resolved wavelength tuning for optical component test and research. Absolute wavelength accuracy class better than ± 0.1 nm; resolution 0.001 nm; SMSR > 40 dB (published reseller/OEM-class figures for 8167A). Single-mode fiber output (9/125 μ m). Later sibling 8167B covers wider 1255–1365 nm O-band specification. O-band optical component test; fiber communications R&D; wavelength-dependent component characterization. Family: 8167 / 8168 Tunable Laser Sources User guide 08168-91021 covers 8167A with 8168D/E/F. Prefer Agilent/HP 8167A specifications for power vs wavelength options.



MODEL

Agilent 8167A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8167A

LISTING

<https://aumictechlabs.com/products/8167a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight (Agilent) 8167A is an O-band tunable laser source engineered for precise optical wavelength selection and stable light output across the 1280–1330 nm window. Designed for optical component characterization, device testing, and photonics research, this instrument delivers absolute wavelength accuracy better than ± 0.1 nm with 0.001 nm resolution. Single-mode output with side-mode suppression ensures clean spectral performance for characterizing filters, amplifiers, transceivers, and other optical devices operating in the 1300 nm transmission window. The unit features GPIB control, LCD display, and optional built-in variable attenuator capability. NIST-traceable calibration and ISO 9001 manufacturing certification provide metrological

confidence for telecommunications and photonics applications. Technical Specifications
Wavelength range: 1280–1330 nm (O-band) Absolute wavelength accuracy: $< \pm 0.1$ nm Relative wavelength repeatability: ± 0.05 nm (typical ± 0.02 nm) Wavelength resolution: 0.001 nm Output power: -4 dBm to -10 dBm Side-mode suppression ratio: Clean single-mode output Control interface: GPIB Display: LCD Key Features High-resolution wavelength tuning for precise optical characterization Repeatable output at ± 0.05 nm across full tuning range Multiple connector options: straight contact, angled contact, or Diamond HMS-10/HP/HRL non-contact connector (Option 023) Retrofit-compatible variable attenuator option (Option 003) NIST-traceable calibration certification ISO 9001 quality manufacturing standard Typical Applications Optical filter and WDM device testing Optical amplifier characterization Transceiver and receiver performance validation Wavelength-dependent component analysis Photonics research and development in the O-band window Compatibility & Integration The 8167A integrates with GPIB-equipped test systems and laboratory automation environments. Its O-band operation targets systems and components optimized for 1300 nm transmission. Connector options accommodate both standard and specialized optical interfaces. The instrument's long operational history provides field-proven reliability for established test setups.

Features & description

From manufacturer datasheet

Features

- Wavelength: 1280–1330 nm (O-band) • Absolute wavelength accuracy: $< \pm 0.1$ nm • Relative accuracy/repeatability: ± 0.05 nm (typ. ± 0.02 nm) • Wavelength resolution: 0.001 nm • Output power class: greater than about -4 dBm to -10 dBm typical published range • SMSR: > 40 dB • Fiber: 9/125 μ m SMF

8167A Characteristics / Specifications

PARAMETER	VALUE
Model	8167A
Manufacturer	Agilent Technologies (HP)
Instrument Type	Tunable Laser Source
Family	8167 / 8168 Tunable Laser Sources
Alias	8167A; HP 8167A; Agilent 8167A Optical
Wavelength Range	1280 nm to 1330 nm
Absolute Wavelength Accuracy	< ± 0.1 nm
Wavelength Resolution	0.001 nm
Side Mode Suppression Ratio	> 40 dB
Fiber Type	9/125 μ m Operational Notes User guide 08168-91021 covers 8167A with 8168D/E/F. Prefer Agilent/HP 8167A specifications for power vs wavelength options.
Wavelength	1280–1330 nm (O-band)
Relative accuracy/repeatability	± 0.05 nm (typ. ± 0.02 nm)
Output power class	greater than about –4 dBm to –10 dBm typical published range
SMSR	> 40 dB
Fiber	9/125 μ m SMF

8167A Specifications

PARAMETER	VALUE
Agilent 8167A Tunable Laser Source	Overview
Key Features	- Wavelength: 1280–1330 nm (O-band)
Technical Specifications	Model: 8167A
Optical	Wavelength Range: 1280 nm to 1330 nm
Operational Notes	User guide 08168-91021 covers 8167A with 8168D/E/F. Prefer Agilent/HP 8167A specifications for power vs wavelength options.

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	8167A
Manufacturer	Agilent Technologies (HP)
Instrument Type	Tunable Laser Source
Family	8167 / 8168 Tunable Laser Sources
Alias	8167A; HP 8167A; Agilent 8167A
Optical	
Specifications	
PARAMETER	VALUE
Wavelength Range	1280 nm to 1330 nm
Absolute Wavelength Accuracy	< ±0.1 nm
Wavelength Resolution	0.001 nm
Side Mode Suppression Ratio	> 40 dB
Fiber Type	9/125 μm
Operational Notes	
User guide 08168-91021 covers 8167A with 8168D/E/F. Prefer Agilent/HP 8167A specifications for power vs wavelength options.	

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.