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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 8168B, Agilent Keysight 8168B Tunable Laser Source

Agilent Keysight 8168B Tunable Laser Source 1500 to 1565 nm The HP 8168B is the follow-on 1550 nm standalone tunable laser to the 8168A. OEM 8168B summaries list 1500 to 1565 nm, 0.001 nm resolution, absolute accuracy less than plus or minus 0.1 nm, typical output minus 3 dBm without Option 003, 100 kHz typical linewidth, and Option 003 40 dB attenuator / Option 007 Panda PMF. Optical amplifier and DWDM component test in the 1550 nm window with optional PMF or attenuator. Typical minus 3 dBm output (no Option 003) The HP 8168B is the follow-on 1550 nm standalone tunable laser to the 8168A. OEM 8168B summaries list 1500 to 1565 nm, 0.001 nm resolution, absolute accuracy less than plus or minus 0.1 nm, typical output minus 3 dBm without Option 003, 100 kHz typical linewidth, and Option 003 40 dB attenuator / Option 007 Panda PMF. Optical amplifier and DWDM component test in the 1550 nm window with optional PMF or attenuator. Typical minus 3 dBm output (no Option 003) Series Family: HP 8168A/B/D/E/F standalone TLS



MODEL

**Agilent / Keysight
8168B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8168B

LISTING

<https://aumictechlabs.com/products/8168b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8168B Tunable Laser Source delivers continuous wavelength tuning across the C-band with single-mode optical output for precise component characterization and optical

system testing. True single-mode operation, narrow spectral linewidth, and high wavelength stability enable accurate measurements in telecommunications and photonics laboratories.

Technical Specifications

Wavelength Range: 1500 nm to 1565 nm Wavelength Resolution: 0.001 nm at 1550 nm Wavelength Accuracy: ± 0.1 nm maximum Wavelength Stability: < 1 GHz (8168D variant) Wavelength Repeatability: ± 0.1 nm (8168D variant) Spectral Linewidth: 100 kHz typical Optical Output Level: -3 dBm typical Fiber Type: 9/125 μ m SMF Operating Mode: True single-mode Power Requirements: 100–240 Vrms $\pm 10\%$, 260 VA maximum (North America: 90–130 Vac, 60 Hz ± 3 Hz) Power Consumption: 110 W typical

Key Features

Narrow 100 kHz linewidth supports precision spectroscopy and filter characterization High wavelength accuracy (± 0.1 nm) and fine resolution (0.001 nm) enable component validation across the C-band GP-IB control with SCPI command support for automated test sequences RS232 serial interface (115200 bps maximum) and Centronics parallel printer output Option 022 connector variant with angled-contact configuration

Environmental & Physical

Operating temperature: 0°C to $+45^{\circ}\text{C}$; Storage: -40°C to $+70^{\circ}\text{C}$ Humidity: $< 95\%$ RH non-condensing (0°C to 55°C) Operating altitude to 3000 m Dimensions (8168F): 145 mm H $\times$ 426 mm W $\times$ 545 mm D; Net weight 18 kg

Compatibility & Integration

The 8168B integrates with Agilent 8163B mainframe systems supporting HP 8153A and Agilent 8163A/B series modules. Note: 8163B modules are incompatible with HP 8153A Lightwave Multimeters.

8168B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Tunable laser source
Series Family	HP 8168A/B/D/E/F standalone TLS
Wavelength Range	1500 nm to 1565 nm
Wavelength Resolution At 1550 Nm	0.001 nm
Absolute Wavelength Accuracy	less than plus or minus 0.1 nm
Optical Output Level Typical	minus 3 dBm typical (without Option 003)
Spectral Linewidth Typical	100 kHz typical
Fiber Type	9/125 um single-mode
Predecessor	8168A 1500-1565 nm TLS
Sidemode Filter	built-in side-mode filter class of 8168A/B
Wavelength Resolution	0.001 nm, 125 MHz at 1550 nm
Power Linearity	plus or minus 0.1 dB
Power Stability 1 Hour	plus or minus 0.03 dB, typical plus or minus 0.01 dB
Power Repeatability Typical	plus or minus 0.04 dB typical
Height	145 mm (5.8 in)
Width	426 mm (16.9 in)
Depth	545 mm (21.6 in)
Line Voltage	100 to 240 Vrms plus or minus 10 percent
Power Consumption	260 VA maximum
Warm Up Typical	less than 1 hour typical
Recalibration Period Family	2 years (8168 series supplementary characteristics)
Remote Interface	HP-IB
Linewidth	Typical: 100 kHz typical
Attenuation	40 dB built-in optical attenuator
Power repeatability	Typical: plus or minus 0.04 dB typical

PARAMETER	VALUE
Power stability	1 Hour: plus or minus 0.03 dB, typical plus or minus 0.01 dB

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	Tunable laser source
Series Family	HP 8168A/B/D/E/F standalone TLS
Wavelength Range	1500 nm to 1565 nm
Wavelength Resolution At 1550 Nm	0.001 nm
Absolute Wavelength Accuracy	less than plus or minus 0.1 nm
Optical Output Level Typical	minus 3 dBm typical (without Option 003)
Spectral Linewidth Typical	100 kHz typical
Fiber Type	9/125 um SMF
Option 003 Attenuation: 40 dB built-in optical attenuator	
Option 007: polarization-maintaining fiber, Panda type	
Option 021: straight contact connector	
Option 022: angled contact connector	
Option 023: Diamond HMS-10/HP/HRL angled non-contact (not with Option 007)	
Specifications	
PARAMETER	VALUE
Predecessor	8168A 1500-1565 nm TLS
Sidemode Filter	built-in side-mode filter class of 8168A/B
Wavelength Resolution	0.001 nm, 125 MHz at 1550 nm
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PARAMETER	VALUE
Recalibration Period Family	2 years (8168 series supplementary characteristics)
Remote Interface	HP-IB
Fiber Type	9/125 um single-mode

Option 003 Class: built-in optical attenuator on models that list Option 003

Notes

1500-1565 nm, 0.001 nm, less than plus or minus 0.1 nm, minus 3 dBm typical, and Option 003/007 from HP 8168B product specification summaries. Chassis mechanical/power from 8168D/E/F series supplementary characteristics for the 8168 standalone box.

Ordering Information

OPTION	DESCRIPTION
Option 003	40 dB attenuator / Option 007 Panda PMF.
Option 007	Panda PMF (not with 003/023)

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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NIST-traceable calibration · SAM registered ·
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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.