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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 83402A Lightwave Receiver

HP Agilent 83402A Lightwave Source 1300 nm 300 kHz to 6 GHz The HP 83402A is a 1300 nm lightwave source module for lightwave component analyzers. OEM 83400-family source/receiver literature and 83402A operating documentation describe 300 kHz to 6 GHz modulation bandwidth at 1300 nm for use with the HP 8702B and 8703A lightwave component analyzers, with 9/125 μ m single-mode fiber and aPC optical interface. Optical-to-electrical and electrical-to-optical component characterization on 8702B/8703A lightwave component analyzer systems at 1300 nm. The HP 83402A is a 1300 nm lightwave source module for lightwave component analyzers. OEM 83400-family source/receiver literature and 83402A operating documentation describe 300 kHz to 6 GHz modulation bandwidth at 1300 nm for use with the HP 8702B and 8703A lightwave component analyzers, with 9/125 μ m single-mode fiber and aPC optical interface. Optical-to-electrical and electrical-to-optical component characterization on 8702B/8703A lightwave component analyzer systems at 1300 nm. Designed as an 8702B/8703A accessory source



MODEL

**Agilent / Keysight
83402A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83402A

LISTING

<https://aumictechlabs.com/products/83402a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 83402A is a high-stability lightwave source module engineered for integration within Agilent 8702 Series lightwave component analyzers. This 1300 nm source

delivers precise optical signals across a 300 kHz to 6 GHz frequency range, making it suitable for RF-modulated lightwave testing and characterization tasks. The module connects via standard Agilent optical interface (PC connector) to single-mode fiber (SMF, 9/125 μm core) and outputs RF signals through SMA connector. Power is supplied via DC connection to a PROBE POWER jack. Technical Specifications Product Type: Lightwave Source Module Wavelength: 1300 nm Frequency Range: 300 kHz to 6 GHz Optical Fiber: Single-Mode Fiber (SMF), 9/125 μm core Optical Connector: PC interface (standard Agilent type) RF Output: SMA connection DC Power Input: PROBE POWER jack Optical Interface Connectors: Agilent 81000xl Series (sold separately) Laser Classification: FDA Class IIIb / IEC Class 3B (based on related 83402C model; maximum output 5 mW at 1300 nm; over-illumination indicator triggers above 3 mW, requiring reduction below 2.5 mW) Shipping Weight: 5 lbs Key Features Wide bandwidth operation from 300 kHz to 6 GHz enables comprehensive RF signal characterization Single-mode fiber design ensures single-spatial-mode propagation and high spectral purity High stability optical source reduces measurement uncertainty in precision test environments Modular design integrates with 8702 Series analyzer platforms Typical Applications Lightwave component characterization and analysis RF-modulated optical signal generation for test and measurement Integration within multi-module lightwave measurement systems Compatibility & Integration Designed exclusively as an accessory module for the Agilent 8702 Series Lightwave Component Analyzers. Requires separate purchase of Agilent 81000xl Series optical interface connectors. This product is obsolete and no longer sold by Keysight, though limited third-party support may remain available.

83402A Characteristics / Specifications

PARAMETER	VALUE
Model	83402A
Instrument Type	lightwave source module
Wavelength Class	1300 nm
Wavelength Listed	1310 plus or minus 30 nm (83402A specification listing)
Modulation Bandwidth	300 kHz to 6 GHz
Optical Fiber	9/125 um single-mode
Optical Connector Interface	PC
Partner Analyzers	8702B and 8703A lightwave component analyzers
Family	83400 lightwave sources and receivers
Manufacturer	HP Agilent Keysight
Mechanical Package	lightwave source module
Use Case	lightwave component analyzer stimulus
Minimum Frequency	300 kHz
Maximum Frequency	6 GHz
Fiber Type	single-mode
Connector Polish	PC
Optical Band	1300 nm class
Rf Modulation	wideband to 6 GHz
System Role	source accessory to 8702/8703
Documentation	83402A Lightwave Source Operating and Service Manual
Related Sources	83404A 840 nm class sibling in the same family
Output Medium	optical fiber
Input Drive	RF modulation from the lightwave analyzer
Stability Class	high-stability source as stated for the 83400 family
Dynamic Range Class	wide bandwidth and dynamic range as stated for the 83400 family

PARAMETER	VALUE
Bandwidth	300 kHz to 6 GHz

83402A Specifications

PARAMETER	VALUE
Applications	Optical-to-electrical and electrical-to-optical component characterization on 8702B/8703A lightwave component analyzer systems at 1300 nm.
Key Features	Wideband 300 kHz to 6 GHz optical source
PC optical connector interface	83400-family source/receiver architecture
Technical Specifications	Model: 83402A

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	
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Notes

From HP/Agilent 83402A lightwave source listings (300 kHz to 6 GHz, 1300 nm, 9/125 um, 8702B/8703A). Laser diode type (DFB versus Fabry-Perot) differs among secondary listings; use the 83402A operating manual matching the serial for diode type and exact wavelength tolerance.

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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30-day returns
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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.