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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 86120A

Dimensions Family: 140 mm x 340 mm x 465 mm (86120B) Successor: 86120B 700-1650 nm with published plus or minus 3 ppm absolute accuracy Documentation: HP 86120A user's guide specification chapter and 86120A/B/C installation guide (08/98) Measurement Functions: wavelength and optical power of multiple laser lines Successor: 86120B 700-1650 nm with published plus or minus 3 ppm absolute accuracy Documentation: HP 86120A user's guide specification chapter and 86120A/B/C installation guide (08/98) Measurement Functions: wavelength and optical power of multiple laser lines Form Factor: benchtop optical wavelength meter



MODEL

**Agilent / Keysight
86120A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

86120A

LISTING

<https://aumictechlabs.com/products/86120a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 86120A is a multi-wavelength meter that employs Michelson interferometer technology to measure wavelength and optical power of laser signals simultaneously. Engineered for precision optical analysis in manufacturing and field deployment environments, it delivers repeatable measurements across demanding operating conditions while supporting multiple laser lines with high accuracy and fast scan times. Technical Specifications Wavelength Range: 700 to 1650 nm (182 to 428 THz) or 1270 to 1650 nm (182 to 236 THz) depending on configuration Maximum Laser Lines: Up to 100 lines (86120B configuration) Wavelength Accuracy: ± 3 ppm at 1550 nm and 1310 nm for laser lines separated by ≥ 30 GHz Wavelength Scan Time: Less than 1

second Laser Linewidth: <10 GHz assumed Maximum Laser Input Power: 10 dBm (18 dBm safe input level) Operating Temperature Range: 0 °C to +55 °C Maximum Relative Humidity: 95% Operating Altitude: Up to 2000 meters Wavelength Standard: Built-in HeNe laser referenceKey Features Simultaneous optical power measurement across multiple laser lines Michelson interferometer-based measurement principle for high accuracy Built-in HeNe laser wavelength standard for reference stability Shock and vibration tested for field robustness Enhanced graphical display for signal analysis LAN connectivity for remote operation and data transferTypical Applications Multi-wavelength laser characterization in manufacturing environments Optical signal validation on production lines Field-based wavelength and power verification Laser line separation and accuracy testingCompatibility & Integration The instrument supports standard interfaces including LAN connectivity for data transfer and system integration with test automation platforms.

Features & description

From manufacturer datasheet

Built-in wavelength reference architecture of the 86120 family

Shared 86120A/B/C installation environment GPIB remote control NORMAL and FAST update class of later 86120B sheet Technical Specifications Instrument Type: Multi-wavelength meter Series Family: HP 86120A/B/C Wavelength Range: 700 nm to 1650 nm Maximum Displayed Level Family: plus 10 dBm, sum of all lines (86120x family table) Maximum Safe Input Level Family: plus 18 dBm, sum of all lines (86120x family table) Display Resolution Family Normal: 0.001 nm (86120B NORMAL mode table; confirm 86120A user Chapter 7) Assumed Linewidth Family: less than 10 GHz including modulation sidebands (86120B table) Power Calibration Accuracy Family: plus or minus 0.5 dB at 1310 nm and 1550 nm, plus or minus 30 nm (86120B table) Maximum Number Of Laser Lines Family: 100 (86120B table) Input Return Loss Flat Family: 35 dB (86120B) Input Return Loss Angled Family: 50 dB Option 022 (86120B) Operating Temperature Family: 0 C to plus 55 C (86120A/B/C installation) Maximum Power Consumption Family: 70 W (86120B user spec; confirm A) Line Voltage Family: 100 / 115 / 230 / 240 V, 50 / 60 Hz Weight Family: 8.5 kg (86120B) Dimensions Family: 140 mm x 340 mm x 465 mm (86120B) Remote Interface: GPIB Successor: 86120B 700-1650 nm with published plus or minus 3 ppm absolute accuracy

86120A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Multi-wavelength meter
Series Family	HP 86120A/B/C
Wavelength Range	700 nm to 1650 nm
Maximum Displayed Level Family	plus 10 dBm, sum of all lines (86120x family table)
Maximum Safe Input Level Family	plus 18 dBm, sum of all lines (86120x family table)
Display Resolution Family Normal	0.001 nm (86120B NORMAL mode table; confirm 86120A user Chapter 7)
Assumed Linewidth Family	less than 10 GHz including modulation sidebands (86120B table)
Power Calibration Accuracy Family	plus or minus 0.5 dB at 1310 nm and 1550 nm, plus or minus 30 nm (86120B table)
Maximum Number Of Laser Lines Family	100 (86120B table)
Input Return Loss Flat Family	35 dB (86120B)
Input Return Loss Angled Family	50 dB Option 022 (86120B)
Operating Temperature Family	0 C to plus 55 C (86120A/B/C installation)
Maximum Power Consumption Family	70 W (86120B user spec; confirm A)
Line Voltage Family	100 / 115 / 230 / 240 V, 50 / 60 Hz
Weight Family	8.5 kg (86120B)
Dimensions Family	140 mm x 340 mm x 465 mm (86120B)
Remote Interface	GPIO
Successor	86120B 700-1650 nm with published plus or minus 3 ppm absolute accuracy
Documentation	HP 86120A user's guide specification chapter and 86120A/B/C installation guide (08/98)
Measurement Functions	wavelength and optical power of multiple laser lines
Form Factor	benchtop optical wavelength meter
Update Modes Family	NORMAL and FAST class of 86120B
Input	single-mode fiber input

PARAMETER	VALUE
Linewidth	Family: less than 10 GHz including modulation sidebands (86120B table)
Operating temperature	Family: 0 C to plus 55 C (86120A/B/C installation)
Return loss	Flat Family: 35 dB (86120B)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Family: 0 C to plus 55 C (86120A/B/C installation)
Operating Temperature	Family: 0 C to plus 55 C (86120A/B/C installation)
Operating Temperature Family	0 C to plus 55 C (86120A/B/C installation)
Maximum Power Consumption Family	70 W (86120B user spec; confirm A)
Line Voltage Family	100 / 115 / 230 / 240 V, 50 / 60 Hz
Weight Family	8.5 kg (86120B)
Dimensions Family	140 mm x 340 mm x 465 mm (86120B)
Remote Interface	GPIB
Successor	86120B 700-1650 nm with published plus or minus 3 ppm absolute accuracy
Documentation	HP 86120A user's guide specification chapter and 86120A/B/C installation guide (08/98)
Measurement Functions	wavelength and optical power of multiple laser lines
Form Factor	benchtop optical wavelength meter
Update Modes Family	NORMAL and FAST class of 86120B
Input	single-mode fiber input Notes 700-1650 nm coverage from HP/Keysight 86120A product listings and the shared 86120A/B/C installation guide. Power-sum plus 10/plus 18 dBm, 100-line, and plus or minus 3 ppm accuracy numbers are the later published 86120B specification table; confirm 86120A Chapter 7 before using those accuracy rows on an 86120A calibration certificate.

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	Multi-wavelength meter
Series Family	HP 86120A/B/C
Wavelength Range	700 nm to 1650 nm
Maximum Displayed Level Family	plus 10 dBm, sum of all lines (86120x family table)
Maximum Safe Input Level Family	plus 18 dBm, sum of all lines (86120x family table)
Display Resolution Family Normal	0.001 nm (86120B NORMAL mode table; confirm 86120A user Chapter 7)
Assumed Linewidth Family	less than 10 GHz including modulation sidebands (86120B table)
Power Calibration Accuracy Family	plus or minus 0.5 dB at 1310 nm and 1550 nm, plus or minus 30 nm (86120B table)
Maximum Number Of Laser Lines Family	100 (86120B table)
Input Return Loss Flat Family	35 dB (86120B)
Input Return Loss Angled Family	50 dB Option 022 (86120B)
Operating Temperature Family	0 C to plus 55 C (86120A/B/C installation)
Maximum Power Consumption Family	70 W (86120B user spec; confirm A)
Line Voltage Family	100 / 115 / 230 / 240 V, 50 / 60 Hz
Weight Family	8.5 kg (86120B)
Dimensions Family	140 mm x 340 mm x 465 mm (86120B)
Remote Interface	GPIB
Successor	86120B 700-1650 nm with published plus or minus 3 ppm absolute accuracy
Documentation	HP 86120A user's guide specification chapter and 86120A/B/C installation guide (08/98)
Measurement Functions	wavelength and optical power of multiple laser lines
Form Factor	benchtop optical wavelength meter
Update Modes Family	NORMAL and FAST class of 86120B
Input	single-mode fiber input
Notes	
700-1650 nm coverage from HP/Keysight 86120A product listings and the shared 86120A/B/C installation guide.	

Power-sum plus 10/plus 18 dBm, 100-line, and plus or minus 3 ppm accuracy numbers are the later published 86120B specification table; confirm 86120A Chapter 7 before using those accuracy rows on an 86120A calibration certificate.

Ordering Information

OPTION	DESCRIPTION
Option 022	(86120B)

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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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
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.