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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 83470A Lightwave Measurement System

HP Agilent 83470A Lightwave Measurement System Mainframe The HP 83470A is a lightwave measurement system mainframe in the 8347x optical test family. OEM lightwave catalogs place 83470A as the system chassis that hosts 8347x optical modules for loss, return-loss, and related fiber measurements in conjunction with 83440-class optical receivers and 8153/8163 lightwave mainframes in HP optical benches. Modular optical loss/return-loss benches and production fiber-component test. Pairs with HP lightwave sources and receivers. The HP 83470A is a lightwave measurement system mainframe in the 8347x optical test family. OEM lightwave catalogs place 83470A as the system chassis that hosts 8347x optical modules for loss, return-loss, and related fiber measurements in conjunction with 83440-class optical receivers and 8153/8163 lightwave mainframes in HP optical benches. Modular optical loss/return-loss benches and production fiber-component test. Pairs with HP lightwave sources and receivers. Instrument Type: Lightwave measurement system mainframe



MODEL

**Agilent / Keysight
83470A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83470A

LISTING

<https://aumictechlabs.com/products/83470a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 83470A is a lightwave reference transmitter designed for optical test and measurement applications. This component integrates into Agilent/Keysight's test equipment ecosystem to support communications systems characterization and optical signal generation. The 83470A functions as a reference source within larger measurement configurations, enabling precise optical testing across communications infrastructure.

Technical Specifications

Product Type: Lightwave Reference Transmitter

Manufacturer: Agilent/Keysight

Key Features

- Optical interface architecture for lightwave applications
- Integration with Agilent/Keysight modular test platforms
- Reference-grade signal generation for optical systems

Typical Applications

- Optical test environments
- Communications systems measurement
- Lightwave component characterization

Test and measurement configurations

Compatibility & Integration

The 83470A operates within the Agilent/Keysight product ecosystem, enabling seamless integration with complementary test instrumentation. This compatibility supports multi-module measurement configurations typical in optical communications labs and manufacturing test environments.

83470A Characteristics / Specifications

PARAMETER	VALUE
Model	83470A
Instrument Type	Lightwave measurement system mainframe
Family	HP 8347x lightwave
Control Bus	HP-IB
Optical Role	system chassis for lightwave modules
Related Test Set	83427A chromatic dispersion test set in adjacent optical family
Related Receivers	83440 class optical receivers
Related Sources	8153/8163 lightwave mainframe class
Form Factor	optical system mainframe
Manufacturer	HP Agilent Keysight
Use Case	fiber component loss and optical measurements
Programming	HP-IB SCPI class optical systems
Operating Temperature Class	0 to 55 C laboratory optical
Line Power Class	100/120/220/240 Vac selectable optical mainframes
Line Frequency Class	47 to 63 Hz
Display	system front panel for module control
Module Slots	8347x family plug-in optical modules
Safety Class	laser product system when optical sources installed
Literature	HP 83470A lightwave measurement system listings
Rack	EIA optical rack class
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Operating temperature	Class: 0 to 55 C laboratory optical

83470A Specifications

PARAMETER	VALUE
HP Agilent 83470A Lightwave Measurement System Mainframe	Overview
Lightwave measurement system mainframe	Hosts 8347x optical modules
Technical Specifications	Model: 83470A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 55 C laboratory optical
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Literature	HP 83470A lightwave measurement system listings
Rack	EIA optical rack class
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications Notes Identity as 83470A Lightwave Measurement System from HP/Agilent optical catalog listings. Module-specific wavelength, dynamic range, and connector options are on the installed 8347x module data sheets.

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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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.