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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 81575A Variable Optical Attenuator Modules with Power Control and Straight Interface

Recommended Recalibration Period Family: 2 years Alias: HP 81575A; Agilent 81575A; Keysight 81575A Application Power Class: up to 2 W family high-power VOA headline Connector Interface: versatile optical connector interfaces / pigtail variants Alias: HP 81575A; Agilent 81575A; Keysight 81575A Application Power Class: up to 2 W family high-power VOA headline Connector Interface: versatile optical connector interfaces / pigtail variants 81575A is identified in Keysight configuration guides as the single-slot high-power attenuator. Dense wavelength/accuracy rows above combine family 8157xA limits with published 81575A reseller OEM summaries; confirm the exact Keysight 81575A datasheet revision and fiber option on the unit before metrology use.



MODEL

**HP / Agilent
81575A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

81575A

LISTING

<https://aumictechlabs.com/products/81575a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 81575A is a variable optical attenuator module engineered for precise control of optical power levels within Agilent's Lightwave Solution Platform. This plug-in module integrates active power control functionality, utilizing a photodiode and monitor tap to maintain a stable output power level through closed-loop feedback - essential when input power fluctuates. The

straight connector interface design supports integration into existing fiber optic infrastructure across multiple connector types and fiber modes. Technical Specifications Product Family: Agilent 8157xA Series Variable Optical Attenuator Modules Interface Type: Straight connector interface Power Control: Integrated active feedback loop with photodiode and monitor tap for output power stabilization Accuracy & Resolution: High accuracy and resolution for precise optical power control Wavelength Flatness: Excellent wavelength flatness across operating range Insertion Loss: Low insertion loss characteristics Input Power Handling: Capable of handling high input power levels Form Factor: Single-slot plug-in module for compatible mainframes Quality Standard: ISO 9001 certified production Key Features Active power control maintains stable output despite input power variations Photodiode-based feedback loop for real-time power monitoring Calibration functionality for reference power setting Attenuation and power levels can be set and displayed relative to user-defined reference Optional integrated shutter for channel drop simulation or optical protection Compact, durable design suitable for laboratory and field deployment User-friendly operation with quick adjustment capability Typical Applications Optical amplifier testing (EDFA, Raman amplifiers) DWDM transmission system analysis Multi-wavelength system characterization Power level stabilization in variable input conditions Compatibility & Integration Designed as a plug-in module for Agilent's Lightwave Solution Platform mainframes: 8163A/B, 8164A/B, and 8166A/B. Compatible with various connector types and fiber modes.

Features & description

From manufacturer datasheet

Features

- Single-slot high-power VOA for 816x platforms • Attenuation 0 to 60 dB; resolution 0.001 dB • Maximum input power +33 dBm class • High-power flatness for DWDM amplifier work • PMF configurations common (confirm faceplate fiber)

81575A Characteristics / Specifications

PARAMETER	VALUE
Model	81575A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	High power variable optical attenuator module
Slot Width	single slot
Platform Compatibility	8163A/B 8164A/B 8166A/B
Attenuation Range	0 to 60 dB
Resolution	0.001 dB
Maximum Input Power	+33 dBm
Wavelength Range Class	1200 nm to 1700 nm (high power VOA family / reseller OEM summaries)
Fiber Type Class	Fujikura PANDA 8/125 PMF configurations common
Return Loss Typical Class	57 dB (angled/PMF high-power summaries)
Accuracy Class	plus/minus 0.2 dB class (reseller OEM summary); confirm datasheet revision
Shutter Isolation Family Typical	100 dB (8157xA family)
Transition Speed Family Typical	0.1 to 12 dB/s
Settling Time Family Typical	100 ms for small steps
Related Dual Slot Power Control	81576A / 81577A
Related Standard SM VOA	81570A / 81571A
Operating Temperature Family	10 C to 45 C
Warmup Time Family	30 minutes
Recommended Recalibration Period Family	2 years
Alias	HP 81575A; Agilent 81575A; Keysight 81575A
Application Power Class	up to 2 W family high-power VOA headline
Connector Interface	versatile optical connector interfaces / pigtail variants
Wavelength range	Class: 1200 nm to 1700 nm (high power VOA family / reseller OEM summaries)

PARAMETER	VALUE
Attenuation	Range: 0 to 60 dB
Operating temperature	Family: 10 C to 45 C
Return loss	Typical Class: 57 dB (angled/PMF high-power summaries)
Fiber type	Class: Fujikura PANDA 8/125 PMF configurations common

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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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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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.