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Data Sheet

August 14, 2026

EXFO

Exfo FVA-60A Variable Optical Attenuator

The Exfo FVA-60A is a variable optical attenuator designed for precise control of optical signal power. It features a wide attenuation range, low insertion loss, and high return loss, making it suitable for various applications, including optical fiber testing, system simulation, and component characterization. The FVA-60A offers accurate and repeatable attenuation settings, ensuring reliable performance in demanding environments.



MODEL

Exfo FVA-60A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FVA-60A

LISTING

<https://aumictechlabs.com/products/fva-60a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The EXFO FVA-60A is a handheld variable optical attenuator engineered for precise control of optical signal power in telecommunications and optical testing environments. This instrument delivers accurate, repeatable attenuation settings across a wide dynamic range, making it ideal for fiber characterization, system simulation, and component validation in single-mode optical networks. Technical Specifications Attenuation Range: Up to 70 dB Attenuation Linearity: ± 0.15 dB (2.5 to 70 dB) Resolution: 0.05 dB Repeatability: ± 0.10 dB Insertion Loss (worst case): 3.0 dB Back Reflection (worst case): -26 dB Operating Wavelengths: 1300 nm, 1550 nm Fiber Type: Single-mode (9/125 μm) Internal Fiber: Step Index Numerical Aperture: 0.10 Optical Connectors: Legacy biconic fiber-optic connectors Key Features Three attenuation modes: Absolute, Relative, and X + b Program mode for automated attenuation sequences with repeatable step control - essential for

accelerated BER testing Variable scanning speed up to 60 dB in 15 seconds (fast mode) RS-232 interface for remote control and PC integration Backlit display for low-light operation Dual power architecture: rechargeable battery pack (NiCad or Ni-MH) with 2 × 9V alkaline battery backup AC adapter available for continuous laboratory operation Typical Applications Optical fiber testing and characterization BER testing and system performance validation Component insertion loss and return loss measurement Optical signal simulation and power control Telecommunications network commissioning and troubleshooting Compatibility & Integration Designed for single-mode fiber networks. RS-232 remote control enables integration into automated test systems and PC-based measurement platforms. EXFO manufacturing complies with ISO 9001 standards.

FVA60A Characteristics / Specifications

PARAMETER	VALUE
Attenuation Maximum Class	70 dB
Resolution	0.05 dB
Linearity From 2.5 to 70 dB	plus or minus 0.15 dB
Repeatability	plus or minus 0.10 dB
Back Reflection Class	greater than 40 dB
Fiber Options Class	singlemode 9/125 um and multimode 50/125 62.5/125 100/140 um
Calibration Wavelength Class Singlemode	1310/1550 nm
Calibration Wavelength Class Multimode	850/1300 nm
Insertion Loss Typical Family	2.5 dB
Insertion Loss Maximum Singlemode Family	3.5 dB
Insertion Loss Maximum Multimode Family	4.0 dB
Return Loss Typical Singlemode Family	45 dB
Return Loss Minimum Singlemode Family	40 dB
Return Loss Typical Multimode Family	27 dB
Return Loss Minimum Multimode Family	20 dB
Maximum Input Power Typical Family	15 dBm
Attenuation Maximum Multimode Family	65 dB
Display Modes Class	Absolute Relative and offset
Remote Interface Class	RS-232 on later family units
Form Factor	handheld portable attenuator
Program Mode	automatic attenuation sequence
Attenuation	Maximum Class: 70 dB
Return loss	Typical Singlemode Family: 45 dB

FVA60A Specifications

PARAMETER	VALUE
Key Features	Up to 70 dB attenuation range class
Plus or minus 0.15 dB linearity from 2.5 to 70 dB class	Low back-reflection greater than 40 dB class
Technical Specifications	Attenuation Maximum Class: 70 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.

performance class: up to 70 dB attenuation, 0.05 dB resolution, plus or minus 0.15 dB linearity from 2.5 to 70 dB, and plus or minus 0.10 dB repeatability with low back-reflection greater than 40 dB.

Applications

Bit-error-rate testing, system loss simulation, power meter calibration verification, optical margin analysis, and field or manufacturing attenuation control with automatic program sequences.

Key Features

Up to 70 dB attenuation range class

0.05 dB resolution and plus or minus 0.10 dB repeatability class

Plus or minus 0.15 dB linearity from 2.5 to 70 dB class

Low back-reflection greater than 40 dB class

Automatic attenuation sequence Program mode

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Attenuation Maximum Class	70 dB
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Linearity From 2.5 to 70 dB	plus or minus 0.15 dB
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Return Loss Minimum Multimode Family	20 dB
Maximum Input Power Typical Family	15 dBm
Attenuation Maximum Multimode Family	65 dB
Display Modes Class	Absolute Relative and offset
Remote Interface Class	RS-232 on later family units
Form Factor	handheld portable attenuator

PARAMETER	VALUE
Program Mode	automatic attenuation sequence

Notes

Core numeric optical table from FVA-60 family OEM literature and FVA-60A product listings that share the FVA-60B specification class. Prefer the unit faceplate and FVA-60A/FVA-60B calibration certificate for connector-specific insertion loss; FVA-60B SPFVA-60B.8AN remains the densest published family table.

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.