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**Data Sheet**
August 14, 2026

EXFO

# Exfo FVA-3150

Multimode Insertion Loss Typical Without Monitor: 1.3 dB Relative Humidity: 0 percent to 80 percent noncondensing Remote Control: GPIB IEEE 488.1/488.2 and RS 232 From EXFO FVA-3150 Variable Attenuator specification sheet SPFVA3150. Specs at 23 C plus or minus 1 C per OEM notes. Relative Humidity: 0 percent to 80 percent noncondensing Remote Control: GPIB IEEE 488.1/488.2 and RS 232 From EXFO FVA-3150 Variable Attenuator specification sheet SPFVA3150. Specs at 23 C plus or minus 1 C per OEM notes.


| | |
|---|---|
| MODEL<br>Exfo FVA-3150 | CALIBRATION<br>Available on request |
| CONDITION<br>Used | STATUS<br>In stock |
| RFQ / SKU<br>FVA-3150 | LISTING<br>https://aumictechlabs.com/products/fva-3150-2/ |

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Exfo FVA-3150 is a variable optical attenuator that provides precise control of optical power levels across the 1250 nm to 1650 nm band. It delivers attenuation linearity of ±0.1 dB with repeatability of ±0.01 dB (2σ), making it essential for component characterization, system loss simulation, calibration procedures, and power meter linearity verification. The instrument supports both singlemode and multimode fiber configurations with multiple attenuation modes - absolute, reference, and offset (X+B) - enabling flexible measurement and control strategies. Technical Specifications Wavelength Range: 1250 nm to 1650 nm Maximum Attenuation: Up to 65 dB (model-dependent configurations available at 45 dB or 20 dB) Attenuation Linearity: ±0.1 dB Attenuation Repeatability (2σ): ±0.01 dB Insertion Loss (typical): 0.002 dB (excluding connectors)

Return Loss (typical): 40 dB Maximum Input Power: 20 dBm Transition Speed (typical): Up to 23 dB/s Shutter Isolation (typical): > 90 dB Monitor Output (typical): 12.8 dB ratio between output and monitor ports (available on select models) Operating Temperature: 0 °C to 40 °C Storage Temperature: −40 °C to 70 °C Relative Humidity: 0 % to 80 % non-condensing Dimensions: 117 mm × 222 mm × 333 mm Weight: 2.6 kg Key Features Supports singlemode (9/125 µm) and multimode (50/125 µm, 62.5/125 µm) fiber Configurable with or without monitor port for real-time power verification Up to 100 programmable attenuation steps with dwell times up to 1000 hours per step Program mode optimized for automated BER testing and linearity measurements GPIB (IEEE-488.1, IEEE-488.2) and RS-232 remote control interfaces LabVIEW drivers and SCPI command support Dual optomechanical design: rotating motor shutter and linear motor filter for reliability Compatibility & Integration Available connector options include UPC and APC configurations: DIN 47256, HMS-10/AG, FC (narrow key), ST, SC, E-2000, and LC. APC connectors are available for singlemode applications only.

## FVA3150 Characteristics / Specifications

| PARAMETER | VALUE |
|---|---|
| **Singlemode Fiber Type** | 9/125 um onBand BM |
| **Singlemode Wavelength Range** | 1250 to 1650 nm |
| **Singlemode Max Attenuation** | greater than or equal to 65 dB |
| **Singlemode Insertion Loss Typical Without Monitor** | 1.0 dB |
| **Singlemode Insertion Loss Max Without Monitor** | 1.5 dB |
| **Singlemode Insertion Loss Typical With Monitor** | 1.5 dB |
| **Singlemode Insertion Loss Max With Monitor** | 2.2 dB |
| **Attenuation Setting Resolution Typical** | 0.002 dB |
| **Attenuation Linearity** | plus or minus 0.1 dB |
| **Attenuation Repeatability 2 Sigma** | plus or minus 0.01 dB |
| **Spectral Uniformity 1510 To 1605 nm** | plus or minus 0.05 dB |
| **Spectral Uniformity 1450 To 1630 nm Typical** | plus or minus 0.09 dB |
| **PDL Peak To Peak Without Monitor** | 0.15 dB |
| **PDL Peak To Peak With Monitor** | 0.2 dB |
| **Return Loss Typical Singlemode** | 60 dB |
| **Max Input Power Singlemode** | 23 dBm |
| **Transition Speed Typical** | up to 23 dB/s |
| **Shutter Isolation Singlemode** | greater than 100 dB |
| **Monitor Output Typical** | 12.8 dB on BM/CM/DM |
| **Multimode Wavelength Range** | 700 to 1350 nm |
| **Multimode Max Attenuation** | greater than or equal to 60 dB |
| **Multimode Insertion Loss Typical Without Monitor** | 1.3 dB |

| PARAMETER | VALUE |
| --- | --- |
| **Size HxWxD** | 117 mm x 222 mm x 333 mm |
| **Weight** | 2.6 kg (5.8 lb) |
| **Operating Temperature** | 0 C to 40 C |
| **Storage Temperature** | minus 40 C to 70 C |
| **Relative Humidity** | 0 percent to 80 percent noncondensing |
| **Remote Control** | GPIB IEEE 488.1/488.2 and RS 232 |
| **Wavelength range** | 1250 to 1650 nm |
| **Attenuation** | greater than or equal to 65 dB |
| **Humidity** | 0 percent to 80 percent noncondensing |
| **Return loss** | Typical Singlemode: 60 dB |
| **Fiber type** | 9/125 um onBand BM |

## General Specifications & Supplementary Characteristics

| PARAMETER | VALUE |
| --- | --- |
| **Storage temperature** | minus 40 C to 70 C |
| **Operating temperature** | 0 C to 40 C |
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| **Humidity** | 0 percent to 80 percent noncondensing |
| **Relative Humidity** | 0 percent to 80 percent noncondensing |
| **Remote Control** | GPIB IEEE 488.1/488.2 and RS 232 Notes From EXFO FVA-3150 Variable Attenuator specification sheet SPFVA3150. Specs at 23 C plus or minus 1 C per OEM notes. |

# 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

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Notes
From EXFO FVA-3150 Variable Attenuator specification sheet SPFVA3150. Specs at 23 C plus or minus 1 C per OEM notes.

## 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

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