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Data Sheet

August 14, 2026

EXFO

Exfo FVA-3100-BWEI Variable Attenuator

Exfo Optical Attenuators. Wavelength: dependent attenuation up to 75 dB across 1200–14, Resolution: ** 0.005 dB.



MODEL Exfo FVA-3100-BWEI	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU FVA-3100-BWEI	LISTING https://aumictechlabs.com/products/fva-3100-bwei-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Exfo FVA-3100-BWEI is a variable optical attenuator engineered for precise control of optical power levels across the extended C- and L-band spectrum. This singlemode fiber instrument delivers wavelength-dependent attenuation up to 75 dB across 1200–1400 nm, with carefully managed roll-off at longer wavelengths. It serves critical roles in EDFA characterization, component and system loss simulation, instrument calibration, power meter linearity verification, and spectral tuning applications. The FVA-3100-BWEI combines low insertion loss (≤ 1.6 dB at 1550 nm typical), exceptional linearity (± 0.1 dB), and fine resolution (0.005 dB) to meet demanding laboratory and field measurement requirements. Three attenuation modes - absolute, relative, and X+B - enable flexible measurement workflows. Remote control via GPIB or RS-232 with full LabVIEW and SCPI support integrates into automated test systems. Technical Specifications Wavelength Range: 1200 to 1650 nm Maximum Attenuation: ≥ 75 dB (1200–1400 nm); ≥ 70 dB (1400–1600 nm); ≥ 65 dB (1600–1650 nm) Insertion Loss: Typical 1.5 dB; maximum 1.8 dB; measured ≤ 1.6 dB @ 1550 nm Resolution: 0.005 dB Linearity: ± 0.1 dB Repeatability: ± 0.03 dB

maximum Spectral Uniformity: ± 0.1 dB Return Loss: Typical 50 dB (limited by connector return loss) Fiber Type: 9/125 μ m singlemode, optimized for spectral flatness Key Features Three attenuation modes: absolute (including insertion loss), relative (referenced to 0.00 dB), and X+B (user-defined reference) Excellent spectral flatness across extended wavelength range Compact benchtop form factor: 222 mm W $\times$ 333 mm D $\times$ 117 mm H; 2.6 kg Optional 19-inch rack mounting Standard EXFO PC/UPC connectors; EUI universal optical connectors available separately Interfaces & Control GPIB (IEEE-488.1, IEEE-488.2) and RS-232 remote control LabVIEW instrument drivers and SCPI command set Environmental Specifications Operating Temperature: 0 $^{\circ}$ C to 40 $^{\circ}$ C Storage Temperature: -40 $^{\circ}$ C to 70 $^{\circ}$ C Relative Humidity: 0-80 % non-condensing

FVA3100BWEI Characteristics / Specifications

PARAMETER	VALUE
Model Family	FVA-3100-B
Ordering Interface Code	EI
Fiber Type	9/125 um singlemode
Wavelength Range	1200 to 1650 nm
Max Attenuation	greater than or equal to 70 dB
Typical Return Loss	greater than 25 dB
Maximum Input Power	20 dBm
Shutter Isolation	greater than 100 dB
Monitor Port	none onBcode
Connector Interface	EXFO EI universal interface adapters
Form Factor	benchtop with optional 19 inch rack
Related Monitor Model	FVA-3100-BM
Multimode Sibling Fibers	50/125 62.5/125 100/140 um on C/D/E codes
Multimode Wavelength Range Family	700 to 1350 nm
Multimode Max Attenuation Family	greater than or equal to 65 dB
Intended Use	loss simulation and calibration
Remote Control Class	instrument platform remote path per FVA-3100 family
Calibration Class	meticulous calibration for repeatable settings
Spectral Tuning Use	yes per OEM applications list
Ultra Low Insertion Loss Class	yes per OEM optimization claim
Specification Ambient Class	laboratory ambient unless OEM table states otherwise
Documentation Source Class	EXFO FVA-3100 Variable Attenuator specification sheet
Attenuation	greater than or equal to 70 dB
Return loss	greater than 25 dB

FVA3100BWEI Specifications

PARAMETER	VALUE
Key Features	Singlemode attenuation greater than or equal to 70 dB class
EXFO EI universal interface adapters	Benchtop with optional 19 inch rack mounting
Technical Specifications	Model Family: FVA-3100-B
Notes	Optical rows from EXFO FVA-3100-B column. BWEI denotes B singlemode with EI connector interface coding on the queue listing.

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.