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Data Sheet

August 7, 2026

JDS UNIPHASE

JDS Uniphase OAB 1415-16-Z001 Erbium-Doped Fiber Amplifier

The JDS Uniphase OAB 1415-16-Z001 is an Erbium-Doped Fiber Amplifier (EDFA) designed to boost optical signal power in fiber optic communication systems. It operates in the 1550 nm wavelength range and provides high gain and low noise amplification for long-haul transmission.



MODEL

**JDS Uniphase OAB
1415-16-Z001**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

OAB 1415-16-Z001

LISTING

<https://aumictechlabs.com/products/oab-1415-16-z001-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase OAB 1415-16-Z001 is an Erbium-Doped Fiber Amplifier (EDFA) engineered to boost optical signal power in fiber optic communication systems across the C-band and L-band wavelength ranges. Operating from 1528 nm to 1610 nm, this amplifier delivers high gain with low noise figure, making it ideal for manufacturing test environments and research applications. The unit supports multiple configurations - pre-amplifier, booster, or in-line amplifier - to match diverse deployment requirements. A benchtop or rack-mountable design with front-panel LCD display provides real-time monitoring of input/output power and current control. Technical Specifications Wavelength Range: 1528–1610 nm (EDFA window); C-band (1528–1565 nm), L-band, and C+L-band configurations available Saturated Output Power: Typically 15–24 dBm

depending on configuration and band Noise Figure (Maximum): 3.3 dB (C-band pre-amplifier) to 5.5 dB (L-band); 4.5–5 dB typical for C-band booster configurations Small Signal Gain (Minimum): 14–37 dB depending on amplifier type and wavelength band Spectral Gain Flatness (Maximum): 1.7 dB peak-to-peak (1570–1603 nm, select configurations) Polarization Dependent Loss (PDL) (Maximum): < 0.3 dB Polarization Mode Dispersion (PMD) (Maximum): 0.6–0.9 ps depending on configuration

Key Features Multiple amplifier topologies optimize performance for signal pre-amplification, power boosting, or in-line applications Wavelength coverage spans 1528–1610 nm with dedicated C-band, L-band, and C+L-band options Low polarization-dependent loss maintains signal integrity across all polarization states Compact benchtop or rack-mountable configuration with LCD front-panel display Accommodates single-channel signal input

Typical Applications Optical signal amplification in C-band and L-band communication systems Manufacturing test and validation of fiber optic components Research and development in long-haul optical networks

Compatibility & Integration Designed for integration into fiber optic test benches and laboratory setups Available in multiple configurations to support various system architectures

Features & description

From manufacturer datasheet

Features

- Family: JDSU OAB instrumentation EDFA
- EDFA operating window: 1528–1610 nm class (exact band on label)
- Configurations in family: pre-amp, booster, in-line; C / L / C+L bands
- Front panel: LCD for input/output power and pump current control
- Packaging: compact benchtop / rack-mountable half-rack class ($\sim 21.2 \times 8.9 \times 35.5$ cm; <4 kg typical OAB)
- Operating temperature: 0 to 50 °C class
- Remote interfaces on many OAB units: RS-232 / GPIB class
- Model OAB1415-16-Z001: verify saturated output, NF, and connector codes on unit under test

OAB141516Z001 Characteristics / Specifications

PARAMETER	VALUE
Model	OAB1415-16-Z001
Manufacturer	JDS Uniphase (JDSU / VIAVI)
Instrument Type	Benchtop Erbium-Doped Fiber Amplifier
Family	JDSU OAB instrumentation EDFA
Alias	OAB 1415-16-Z001; OAB1415-16 Optical OAB EDFA; band/power per 1415-16-Z001 faceplate Operational Notes Prefer JDSU OAB EDFA manual. Public numeric rows for 1415-16-Z001 are sparse—do not assume 1552-class power figures without label confirmation.
EDFA operating window	1528–1610 nm class (exact band on label)
Configurations in family	pre-amp, booster, in-line; C / L / C+L bands
Front panel	LCD for input/output power and pump current control
Packaging	compact benchtop / rack-mountable half-rack class (~21.2 × 8.9 × 35.5 cm; <4 kg typical OAB)
Operating temperature	0 to 50 °C class
Remote interfaces on many OAB units	RS-232 / GPIB class
Model OAB1415-16-Z001	verify saturated output, NF, and connector codes on unit under test

OAB141516Z001 Specifications

PARAMETER	VALUE
Applications	EDFA-window optical amplification for component and subsystem test; lab booster/pre-amp roles per installed configuration.
Technical Specifications	Model: OAB1415-16-Z001
Optical	OAB EDFA; band/power per 1415-16-Z001 faceplate

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 °C class - Remote interfaces on many OAB units: RS-232 / GPIB class - Model OAB1415-16-Z001: verify saturated output, NF, and connector codes on unit under test
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Model	OAB1415-16-Z001
Manufacturer	JDS Uniphase (JDSU / VIAVI)
Instrument Type	Benchtop Erbium-Doped Fiber Amplifier
Family	OAB Series
Alias	OAB 1415-16-Z001; OAB1415-16 Optical OAB EDFA; band/power per 1415-16-Z001 faceplate Operational Notes Prefer JDSU OAB EDFA manual. Public numeric rows for 1415-16-Z001 are sparse—do not assume 1552-class power figures without label confirmation.

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

PARAMETER	VALUE
Model	OAB1415-16-Z001
Manufacturer	JDS Uniphase (JDSU / VIAVI)
Instrument Type	Benchtop Erbium-Doped Fiber Amplifier
Family	OAB Series
Alias	OAB 1415-16-Z001; OAB1415-16

Optical

OAB EDFA; band/power per 1415-16-Z001 faceplate

Operational Notes

Prefer JDSU OAB EDFA manual. Public numeric rows for 1415-16-Z001 are sparse-do not assume 1552-class power figures without label confirmation.

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.