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Data Sheet

August 12, 2026

JDS UNIPHASE

JDS Uniphase OAB 1554+1FA2 Erbium-Doped Fiber Amplifier

The JDS Uniphase OAB 1554+1FA2 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, essential for long-haul and high-bandwidth applications. This EDFA enhances signal transmission quality and extends the reach of optical networks.



MODEL

**JDS Uniphase OAB
1554+1FA2**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

OAB 1554+1FA2

LISTING

<https://aumictechlabs.com/products/oab-1554-1fa2-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase OAB 1554+1FA2 is an Erbium-Doped Fiber Amplifier (EDFA) designed to amplify optical signals in fiber optic communication networks. Operating at the 1550 nm wavelength band, this module delivers high optical gain and maintains low noise figure performance - both essential for extending transmission reach and preserving signal integrity in long-haul and high-bandwidth telecommunication systems.

Technical Specifications

Amplifier Type: Erbium-Doped Fiber Amplifier (EDFA)

Operating Wavelength Range: 1550 nm band

Key Features

- Optimized for 1550 nm C-band operation in long-haul optical networks
- Low noise figure design enhances signal-to-noise performance
- High optical gain for extended transmission reach

Enhanced signal quality in demanding communication infrastructures
Typical Applications Long-haul optical transmission systems High-bandwidth telecommunication networks Signal amplification in fiber optic communication links Network reach extension for submarine and terrestrial routes
Compatibility & Integration The OAB 1554+1FA2 integrates into standard optical communication architectures supporting C-band wavelengths. Integration with existing 1550 nm band systems of optical connector compatibility and control interface requirements at system specification.

Features & description

From manufacturer datasheet

Features

• Model family: OAB1554 C-band booster high power • Operating wavelength: 1528–1563 nm (OAB1554 booster high-power row) • Saturated output power (minimum): 20 dBm • Noise figure (maximum): 5 dB • Small-signal gain (minimum): 32 dB • PDL (maximum): 0.3 dB class • PMD (maximum): 0.4 ps class • Input/output isolation (minimum): 45/32 dB class (booster table) • Optical interface options: FC/PC, FC/APC, SC/PC, SC/APC • Packaging: half-rack benchtop; 19-inch rack-mount kit • Size: 21.2 × 8.9 × 35.5 cm; weight <4 kg • Operating temp: 0 to 50 °C • Front panel LCD: input/output power, current control, optical interface

Applications

• C-band optical booster amplification • Component / subsystem / transmission test • Single-channel or DWDM stimulus (model-dependent)

OAB15541FA2 Characteristics / Specifications

PARAMETER	VALUE
Model	OAB 1554+1FA2
Manufacturer	JDS Uniphase
Instrument Type	Erbium-Doped Fiber Amplifier
Alias	OAB1554; OAB 1554+1FA2; JDSU OAB1554
Band	C-band
Wavelength	1528–1563 nm
Type	booster high power
Psat min	20 dBm
NF max	5 dB
Gain min	32 dB
Weight	<4 kg Notes Electrical/optical rows from JDSU OAB Series EDFA specifications (OAB1554 booster high-power column). Confirm exact +1FA2 connector coding and mid-span options on the faceplate.
Model family	OAB1554 C-band booster high power
Operating wavelength	1528–1563 nm (OAB1554 booster high-power row)
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Noise figure (maximum)	5 dB
Small-signal gain (minimum)	32 dB
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Front panel LCD	input/output power, current control, optical interface

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Output isolation	(minimum): 45/32 dB class (booster table) - Optical interface options: FC/PC, FC/APC, SC/PC, SC/APC - Packaging: half-rack benchtop; 19-inch rack-mount kit - Size: 21.2 × 8.9 × 35.5 cm; weight <4 kg - Operating temp: 0 to 50 °C - Front panel LCD: inp

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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Model	OAB 1554+1FA2
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Notes

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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.