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Data Sheet

August 13, 2026

JDS UNIPHASE

JDS Uniphase OAB1554

JDS Uniphase OAB1554 C-band High-Power Booster EDFA The OAB1554 is a JDSU OAB-series C-band high-power booster erbium-doped fiber amplifier. Catalog order example OAB1554+20FP0 is the OAB1554 booster platform with standard/high-power and connector coding. It amplifies a single-channel stimulus in the 1528 to 1563 nm booster window. Front-panel LCD shows input/output power and pump current. Half-rack benchtop with 19-inch rack-mount kit; RS232 remote control. Class IIIb laser product. C-band optical booster amplification for component, subsystem, and transmission test; SONET/SDH single-channel stimulus; manufacturing and R&D EDFA emulation. The OAB1554 is a JDSU OAB-series C-band high-power booster erbium-doped fiber amplifier. Catalog order example OAB1554+20FP0 is the OAB1554 booster platform with standard/high-power and connector coding. It amplifies a single-channel stimulus in the 1528 to 1563 nm booster window. Front-panel LCD shows input/output power and pump current. Half-rack benchtop with 19-inch rack-mount kit; RS232 remote control. Class IIIb laser product. C-band optical booster amplification for component, subsystem, and transmission test; SONET/SDH single-channel stimulus; manufacturing and R&D EDFA emulation.



MODEL

**JDS Uniphase
OAB1554**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

OAB1554

LISTING

<https://aumictechlabs.com/products/oab1554-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDS Uniphase OAB1554 is a C-band Erbium-Doped Fiber Amplifier (EDFA) configured as a booster amplifier for optical signal amplification in telecommunications and data network systems. Operating across the 1528–1610 nm EDFA window with specific optimization at 1550 nm and 1590 nm test bands, the OAB1554 delivers high gain and minimized noise figure for demanding optical transmission applications. Technical Specifications Wavelength Range: 1528–1610 nm (C-band EDFA window); optimized for 1550 nm and 1590 nm operation Amplifier Type: Booster configuration Optical Interfaces: Input and output ports for signal coupling Operating Temperature: Gain and saturated output power guaranteed at 23 °C Standards Compliance: CE and ULc certified Key Features Booster-class amplifier architecture for high saturated output power Front-panel LCD display showing input/output optical power and amplifier current Optimized gain and noise figure performance across the C-band Compact benchtop form factor with optional rack-mount kit availability Typical Applications DWDM transmission systems and Sonet/SDH network deployments optical communication in data center environments Enterprise fiber optic network infrastructure Pre-amplifier, booster, and inline amplifier emulation in manufacturing test and R&D validation Optical sub-assembly and component manufacturing test environments Compatibility & Integration The OAB1554 integrates into existing optical test and transmission systems via standard fiber-optic interfaces. Benchtop and rack-mount configurations support flexible deployment in laboratory, manufacturing, and field environments.

Features & description

From manufacturer datasheet

Features

- C-band booster high-power configuration (OAB1554 column)
- Front-panel LCD for input/output power and current control
- Connector choices FC/PC, FC/APC, SC/PC, SC/APC
- Compact half-rack package shared across the OAB family
- RS232 remote; CE / UL3101-1 / CSA C22.2 1010.1 class literature
- Related family covers pre-amp, in-line, mid-span, and DWDM boosters

OAB1554 Characteristics / Specifications

PARAMETER	VALUE
Model	OAB1554
Manufacturer	JDS Uniphase
Instrument Type	Erbium-doped fiber amplifier
Family	OAB Series
Alias	OAB1554; OAB 1554; OAB1554+20FPx
Band	C-band
Amplifier Type	booster high power
Input Signal	single channel
Operating Wavelength	1528 to 1563 nm
Saturated Output Min	20 dBm (1550 nm, Pin = -4 dBm)
Noise Figure Max	5 dB (booster, Pin = -4 dBm)
Small Signal Gain Min	32 dB (Pin = -20 dBm)
PDL Max	0.3 dB
PMD Max	0.4 ps
Input Isolation Min	45 dB
Output Isolation Min	32 dB
Optical Interfaces	FC/PC, FC/APC, SC/PC, SC/APC
Spec Wavelength	1550 nm
Spec Temperature	23 C
FDA Max Output	not greater than 24.5 dBm (Class IIIb, 21 CFR 1040.10)
Laser Class	IIIb, 1528 to 1610 nm family window
Remote Interface	RS232
Packaging	half-rack benchtop plus 19 inch rack-mount kit
Dimensions	21.2 × 8.9 × 35.5 cm
Weight	<4 kg

PARAMETER	VALUE
Operating Temperature	0 to 50 C
Storage Temperature	-40 to 70 C
Humidity	95 percent RH noncondensing, 0 to 45 C
Related OAB15	C-band pre-amp, 14 dBm, 3.3 dB NF, 37 dB gain
Standard Accessory	ED000899-A-00 19 inch rack-mount kit
Output isolation	Min: 32 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to 70 C
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Humidity	95 percent RH noncondensing, 0 to 45 C
Related OAB15	C-band pre-amp, 14 dBm, 3.3 dB NF, 37 dB gain
Standard Accessory	ED000899-A-00 19 inch rack-mount kit Notes Electrical/optical rows from the JDSU OAB Series EDFA specifications (OAB1554 booster high-power column) and the OAB instruction/datasheet tables. Confirm exact +2x connector coding (FP/FA/SC/SU) and any input/output monitor custom options on the faceplate. OAB1415-16-Z001 isadifferent suffix withoutapublished 1554-column row.

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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Small Signal Gain Min	32 dB (Pin = -20 dBm)
PDL Max	0.3 dB
PMD Max	0.4 ps
Input Isolation Min	45 dB
Output Isolation Min	32 dB
Optical Interfaces	FC/PC, FC/APC, SC/PC, SC/APC
Spec Wavelength	1550 nm
Spec Temperature	23 C
FDA Max Output	not greater than 24.5 dBm (Class IIb, 21 CFR 1040.10)
Laser Class	IIb, 1528 to 1610 nm family window
Remote Interface	RS232
Packaging	half-rack benchtop plus 19 inch rack-mount kit
Dimensions	21.2 x 8.9 x 35.5 cm
Weight	<4 kg
Operating Temperature	0 to 50 C

PARAMETER	VALUE
Storage Temperature	-40 to 70 C
Humidity	95 percent RH noncondensing, 0 to 45 C
Related OAB1550	C-band pre-amp, 14 dBm, 3.3 dB NF, 37 dB gain
Related OAB1552	C-band booster, 17 dBm, 4.5 dB NF, 30 dB gain
Standard Accessory	ED000899-A-00 19 inch rack-mount kit

Notes

Electrical/optical rows from the JDSU OAB Series EDFA specifications (OAB1554 booster high-power column) and the OAB instruction/datasheet tables. Confirm exact +2x connector coding (FP/FA/SC/SU) and any input/output monitor custom options on the faceplate. OAB1415-16-Z001 is a different suffix without a published 1554-column row.

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.