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Data Sheet

August 15, 2026

JDS UNIPHASE

JDS Uniphase OAB1552+20FP0

The JDS Uniphase OAB1552+20FP0 is a benchtop Erbium-Doped Fiber Amplifier (EDFA) engineered as a C-band booster amplifier for single-channel optical signal amplification across 1528–1563 nm. This unit delivers high gain and saturated output power to extend transmission reach in fiber optic communication systems, with flexible optical interfaces and rack-mount capability for laboratory and production environments. Aumictech offers NIST-traceable calibration and repair for the JDS Uniphase OAB1552+20FP0. Calibration covers gain at rated input power across the specified wavelength range, noise figure at rated gain setting, output power accuracy, gain flatness across the C-band or specified wavelength range, and polarization-dependent gain (PDG) where applicable. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Common JDS Uni



MODEL

**JDS Uniphase
OAB1552+20FP0**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

OAB1552+20FP0

LISTING

<https://aumictechlabs.com/products/oab1552-20fp0-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase OAB1552+20FP0 is a benchtop Erbium-Doped Fiber Amplifier (EDFA) engineered as a C-band booster amplifier for single-channel optical signal amplification across 1528–1563 nm. This unit delivers high gain and saturated output power to extend transmission reach in fiber optic communication systems, with flexible optical interfaces and rack-mount capability for laboratory and production environments. Technical Specifications Optical

Performance Operating wavelength range: 1528–1563 nm Amplifier window: 1528–1610 nm
Minimum small signal gain: 37 dB Minimum saturated output power: 17 dBm Maximum noise figure: 4.5 dB Spectral gain flatness (maximum): 1.7 dB (p-p) over 1570–1603 nm Maximum PDL: < 0.3 dB Maximum PMD: 0.6 ps Input/output isolation: 40/40 dB (minimum) Pump Laser & Interfaces
Pump wavelength: 980 nm Maximum pump power achieves approximately 40 dB gain Optical connectors: FC/PC, FC/APC, SC/PC, SC/APC Signal configuration: Single channel Physical & Environmental Dimensions: 21.2 × 8.9 × 35.5 cm Weight: < 4 kg Operating temperature: 0 to 50 °C Storage temperature: -40 to 70 °C Humidity (maximum): 95% RH non-condensing (0 to 45 °C)
Laser safety: FDA 21 CFR 1040.10 Class IIIb; maximum output power ≤ 24.5 dBm Key Features Front-panel LCD for real-time input/output power and current monitoring RS232 remote control capability Compact benchtop form factor with optional 19-inch rack-mount kit High output power and gain over C-band window Low polarization-dependent loss and mode dispersion Compatible with JDS Uniphase Model 1200 Series power supply Typical Applications Pre-amplifier, booster, and in-line amplifier configurations DWDM transmission for multichannel lightwave systems Sonet/SDH single-channel systems Component and sub-assembly manufacturing Fiber optic research and development Compatibility & Integration The OAB1552+20FP0 accepts external power via JDS Uniphase Model 1200 Series supplies and supports mid-span access for system integration. Multiple optical interface options enable straightforward connection to standard fiber patch panels and test setups.

Features & description

From manufacturer datasheet

High Power Code 6: at least 24 dBm

Noise Figure Maximum: 4.5 dB at Pin minus 4 dBm Small Signal Gain Minimum: 30 dB at Pin minus 20 dBm Pdl Maximum: 0.3 dB Pmd Maximum: 0.4 ps Input Isolation Minimum: 45 dB Output Isolation Minimum: 32 dB Specification Condition: 1550 nm and 23 C Fda Maximum Output: not greater than 24.5 dBm Class IIIb Optical Interfaces: FC/PC FC/APC SC/PC SC/APC Packaging: half rack benchtop with 19 inch rack kit Dimensions: 21.2 × 8.9 × 35.5 cm Weight: less than 4 kg Operating Temperature: 0 to 50 C Storage Temperature: minus 40 to 70 C Humidity: 95 percent RH non condensing 0 to 45 C Remote Interface: RS-232 Standard Rack Kit: ED000899-A-00 Notes From JDS Uniphase Instrumentation EDFA datasheet 10109630 Rev.002 OAB1552 booster column and ordering table. Confirm the output-power and connector codes in the full catalog string.

OAB155220FP0 Characteristics / Specifications

PARAMETER	VALUE
Model	OAB1552
Instrument Type	Erbium doped fiber amplifier
Amplifier Type	C-band booster
Operating Wavelength Range	1528 to 1563 nm
Input Signal	single channel
Saturated Output Power Minimum Standard	17 dBm at 1550 nm Pin minus 4 dBm
High Power Code	at least 20 dBm
Noise Figure Maximum	4.5 dB at Pin minus 4 dBm
Small Signal Gain Minimum	30 dB at Pin minus 20 dBm
PdI Maximum	0.3 dB
Pmd Maximum	0.4 ps
Input Isolation Minimum	45 dB
Output Isolation Minimum	32 dB
Specification Condition	1550 nm and 23 C
Fda Maximum Output	not greater than 24.5 dBm Class IIIb
Optical Interfaces	FC/PC FC/APC SC/PC SC/APC
Packaging	half rack benchtop with 19 inch rack kit
Dimensions	21.2 × 8.9 × 35.5 cm
Weight	less than 4 kg
Operating Temperature	0 to 50 C
Storage Temperature	minus 40 to 70 C
Humidity	95 percent RH non condensing 0 to 45 C
Remote Interface	RS-232
Standard Rack Kit	ED000899-A-00
Wavelength range	1528 to 1563 nm

PARAMETER	VALUE
Output isolation	Minimum: 32 dB

OAB155220FP0 Specifications

PARAMETER	VALUE
LCD input/output power and pump current display	RS232 remote control
FC/PC FC/APC SC/PC SC/APC optical interfaces	Half-rack benchtop with 19-inch rack kit
Technical Specifications	Model: OAB1552

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 to 70 C
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Humidity	95 percent RH non condensing 0 to 45 C
Remote Interface	RS-232
Standard Rack Kit	ED000899-A-00 Notes From JDS Uniphase Instrumentation EDFA datasheet 10109630 Rev.002 OAB1552 booster column and ordering table. Confirm the output-power and connector codes in the full catalog string.

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	OAB1552
Instrument Type	Erbium doped fiber amplifier
Amplifier Type	C-band booster
Operating Wavelength Range	1528 to 1563 nm
Input Signal	single channel
Saturated Output Power Minimum Standard	17 dBm at 1550 nm Pin minus 4 dBm
High Power Code 2	at least 20 dBm
High Power Code 6	at least 24 dBm
Noise Figure Maximum	4.5 dB at Pin minus 4 dBm
Small Signal Gain Minimum	30 dB at Pin minus 20 dBm
Pdl Maximum	0.3 dB
Pmd Maximum	0.4 ps
Input Isolation Minimum	45 dB
Output Isolation Minimum	32 dB
Specification Condition	1550 nm and 23 C
Fda Maximum Output	not greater than 24.5 dBm Class IIIB
Optical Interfaces	FC/PC FC/APC SC/PC SC/APC
Packaging	half rack benchtop with 19 inch rack kit
Dimensions	21.2 x 8.9 x 35.5 cm
Weight	less than 4 kg
Operating Temperature	0 to 50 C
Storage Temperature	minus 40 to 70 C
Humidity	95 percent RH non condensing 0 to 45 C
Remote Interface	RS-232
Standard Rack Kit	ED000899-A-00

Notes

From JDS Uniphase Instrumentation EDFA datasheet 10109630 Rev.002 OAB1552 booster column and ordering table.
Confirm the output-power and connector codes in the full catalog string.

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.