

**Aumictech**

Test &amp; measurement · bought, sold, repaired, calibrated

**Data Sheet**

August 14, 2026

JDS UNIPHASE

## JDS Uniphase OAB1558+22FA0

The JDS Uniphase OAB1558+22FA0 is a C-band booster amplifier for DWDM telecommunications systems, delivering high saturated output power across the 1528–1565 nm window. This multichannel optical amplifier achieves minimum 20 dB small-signal gain with a noise figure not exceeding 5.5 dB, making it suitable for signal regeneration and network reach extension in long-haul deployments. Humidity: Maximum 95% RH non-condensing (0 to 45 °C) Power & Safety Specifications guaranteed at 1550 nm and 23 °C. Maximum output power limited to 22.8 dBm for L-band and 24.5 dBm for C+L-band configurations per FDA 21CFR 1040.10 Class IIIb laser requirements. High saturated output power enables booster deployment in point-to-point and metro ring topologies Multichannel DWDM capability supports dense wavelength division multiplexing across C-band



MODEL

**JDS Uniphase  
OAB1558+22FA0**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**OAB1558+22FA0**

LISTING

<https://aumictechlabs.com/products/oab1558-22fa0-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The JDS Uniphase OAB1558+22FA0 is a C-band booster amplifier for DWDM telecommunications systems, delivering high saturated output power across the 1528–1565 nm window. This multichannel optical amplifier achieves minimum 20 dB small-signal gain with a noise figure not exceeding 5.5 dB, making it suitable for signal regeneration and network reach extension in long-haul deployments. Technical Specifications Optical Performance Amplifier Type: Booster DWDM

high power Wavelength Range: 1528–1565 nm (C-band) Input Signal: Multichannel (DWDM) Small Signal Gain (minimum): 20 dB Saturated Output Power (minimum): 21 dBm Noise Figure (maximum): 5.5 dB Input Isolation: 40 dB (minimum) Output Isolation: 40 dB (minimum) Optical Interface Connector Options: FC/PC, FC/APC, SC/PC, SC/APC Physical & Environmental Packaging: Benchtop or rack-mountable unit Operating Temperature: 0 to 50 °C Storage Temperature: –40 to 70 °C Humidity: Maximum 95% RH non-condensing (0 to 45 °C) Power & Safety Specifications guaranteed at 1550 nm and 23 °C. Maximum output power limited to 22.8 dBm for L-band and 24.5 dBm for C+L-band configurations per FDA 21CFR 1040.10 Class IIIb laser requirements. Key Features High saturated output power enables booster deployment in point-to-point and metro ring topologies Multichannel DWDM capability supports dense wavelength division multiplexing across C-band Low noise figure minimizes signal degradation in cascade configurations Dual input/output isolation provides immunity from reflected signals Multiple connector options accommodate diverse field installations Wide operating temperature range suits both indoor and outdoor cabinet deployments Typical Applications Long-haul terrestrial optical networks requiring signal boost DWDM system booster amplification stages Network reach extension in 10 Gbps and higher rate systems Point-to-point transmission links Compatibility & Integration FC/PC, FC/APC, SC/PC, and SC/APC connectors enable integration with standard DWDM multiplexers, transponders, and transmission line equipment. The unit operates across 0–50 °C, accommodating standard telecommunications cabinet environments.

## OAB155822FA0 Characteristics / Specifications

| PARAMETER                             | VALUE                                                  |
|---------------------------------------|--------------------------------------------------------|
| Instrument Family                     | JDS Uniphase OAB1558                                   |
| Test Band                             | C-band                                                 |
| Amplifier Type                        | DWDM booster                                           |
| Operating Wavelength Range            | 1528 to 1563 nm                                        |
| Input Signal                          | multichannel DWDM                                      |
| Saturated Output Power Minimum        | 21 dBm                                                 |
| Noise Figure Maximum                  | 5.5 dB                                                 |
| Spectral Gain Flatness Maximum Pp     | 1.4 dB 1528 to 1563 nm                                 |
| PDL Maximum                           | less than 0.3 dB                                       |
| PMD Maximum                           | 0.6 ps class family table                              |
| Input Output Isolation Minimum        | 40/40 dB class family                                  |
| Optical Interface Options             | FC/PC FC/APC SC/PC SC/APC                              |
| Dimensions WxHxD                      | 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                              | maximum 95 percent RH non-condensing 0 to 45 C         |
| Specification Temperature             | 23 C at 1550 nm                                        |
| Remote Control                        | RS232                                                  |
| Packaging                             | half rack benchtop and 19-inch rack-mount kit          |
| Laser Safety Class                    | IIIb                                                   |
| Pin Saturated Power Measurement Class | Pin equals -4 dBm class for 1558 models                |
| Series Family                         | JDSU OAB EDFA                                          |
| Maximum Output Power FDACBand Class   | not greater than 24.5 dBm Class IIIb class family note |
| Wavelength range                      | 1528 to 1563 nm                                        |

| PARAMETER            | VALUE                                                                  |
|----------------------|------------------------------------------------------------------------|
| Maximum output power | FDACBand Class: not greater than 24.5 dBm Class IIIb class family note |
| Output isolation     | Minimum: 40/40 dB class family                                         |

# OAB155822FA0 Specifications

| PARAMETER                                  | VALUE                                                                                                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Applications                               | C-band DWDM booster amplification, multi-channel optical amplifier emulation, and laboratory EDFA testing near 1550 nm. |
| LCD input/output power and current display | RS232 remote control                                                                                                    |
| Technical Specifications                   | Instrument Family: JDS Uniphase OAB1558                                                                                 |

# 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                              | maximum 95 percent RH non-condensing 0 to 45 C                                                                                                                                                                                  |
| Specification Temperature             | 23 C at 1550 nm                                                                                                                                                                                                                 |
| Remote Control                        | RS232                                                                                                                                                                                                                           |
| Packaging                             | half rack benchtop and 19-inch rack-mount kit                                                                                                                                                                                   |
| Laser Safety Class                    | IIIb                                                                                                                                                                                                                            |
| Pin Saturated Power Measurement Class | Pin equals -4 dBm class for 1558 models                                                                                                                                                                                         |
| Series Family                         | JDSU OAB EDFA                                                                                                                                                                                                                   |
| Maximum Output Power FDACBand Class   | not greater than 24.5 dBm Class IIIb class family note Notes From JDS Uniphase OAB Series OEM specification tables for OAB1558 C-band DWDM booster. Confirm flattened versus unflattened and connector codes on the unit label. |

# 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                                                  |
| Instrument Family                     | JDS Uniphase OAB1558                                   |
| Test Band                             | C-band                                                 |
| Amplifier Type                        | DWDM booster                                           |
| Operating Wavelength Range            | 1528 to 1563 nm                                        |
| Input Signal                          | multichannel DWDM                                      |
| Saturated Output Power Minimum        | 21 dBm                                                 |
| Noise Figure Maximum                  | 5.5 dB                                                 |
| Spectral Gain Flatness Maximum Pp     | 1.4 dB 1528 to 1563 nm                                 |
| PDL Maximum                           | less than 0.3 dB                                       |
| PMD Maximum                           | 0.6 ps class family table                              |
| Input Output Isolation Minimum        | 40/40 dB class family                                  |
| Optical Interface Options             | FC/PC FC/APC SC/PC SC/APC                              |
| Dimensions WxHxD                      | 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                              | maximum 95 percent RH non-condensing 0 to 45 C         |
| Specification Temperature             | 23 C at 1550 nm                                        |
| Remote Control                        | RS232                                                  |
| Packaging                             | half rack benchtop and 19-inch rack-mount kit          |
| Laser Safety Class                    | IIIb                                                   |
| Pin Saturated Power Measurement Class | Pin equals -4 dBm class for 1558 models                |
| Series Family                         | JDSU OAB EDFA                                          |
| Maximum Output Power FDACBand Class   | not greater than 24.5 dBm Class IIIb class family note |

#### Notes

From JDS Uniphase OAB Series OEM specification tables for OAB1558 C-band DWDM booster. Confirm flattened versus unflattened and connector codes on the unit label.

## Laser Safety

---

Laser Safety Class: IIIb Pin Saturated Power Measurement Class: Pin equals -4 dBm class for 1558 models  
Series Family: JDSU OAB EDFA Maximum Output Power FDACBand Class: not greater than 24.5 dBm  
Class IIIb class family note Notes From JDS Uniphase OAB Series OEM specification tables for OAB1558  
C-band DWDM booster. Confirm flattened versus unflattened and connector codes on the unit label.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

788 S 500 E, Pleasant Grove, UT 84062  
[sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341  
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·  
30-day returns  
NAICS 423690 · 811210 · 541380  
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.