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**Data Sheet**

August 15, 2026

JDS UNIPHASE

## JDS Uniphase BNS1415

JDS Uniphase BNS1415 Broadband Erbium ASE Source The JDS Uniphase BNS1415 isaC-band broadband erbium ASE source. OEM BNS1415 listings specify test band C, operating wavelength range 1527 to 1568 nm, and total optical power 20 mW maximum. Optical interface is FC/APC class. The instrument isaC-band erbium-doped broadband source for IL, PDL, and amplifier characterization. C-band ASE stimulus for component IL/PDL and EDFA noise-figure setups. Instrument Type: Broadband erbium ASE source The JDS Uniphase BNS1415 isaC-band broadband erbium ASE source. OEM BNS1415 listings specify test band C, operating wavelength range 1527 to 1568 nm, and total optical power 20 mW maximum. Optical interface is FC/APC class. The instrument isaC-band erbium-doped broadband source for IL, PDL, and amplifier characterization. C-band ASE stimulus for component IL/PDL and EDFA noise-figure setups. Instrument Type: Broadband erbium ASE source Operating Wavelength Range: 1527 to 1568 nm



MODEL

**JDS Uniphase  
BNS1415**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**BNS1415**

LISTING

<https://aumictechlabs.com/products/bns1415-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

### This unit

The JDS Uniphase BNS1415 is a broadband erbium-doped fiber amplified spontaneous emission (ASE) source that delivers stable, high-power optical noise across the C-band and extended wavelength ranges. It generates unpolarized ASE through optical pumping of erbium-doped fiber,

making it ideal for spectral characterization, system compliance testing, noise loading experiments, and polarization mode dispersion measurements. Technical Specifications Wavelength Range: 1527–1568 nm, 1525–1600 nm Maximum Optical Output Power: 20 mW (typical), 30 mW (maximum) Total Optical Power: Greater than 12 dBm Optical Noise Spectral Density: Greater than –10 dBm (1 nm resolution bandwidth) Output Stability: 0.05 dB over 12 hours at constant temperature Return Loss: Greater than 55 dB (FC/APC connector) Optical Interface: FC/APC bulkhead Emission Type: Amplified Spontaneous Emission (unpolarized) Power Input: 110–240 VAC Key Features Compact benchtop form factor (21.2 cm W × 8.9 cm H × 35.5 cm D), less than 4 kg High spectral density exceeding –10 dBm across 1 nm resolution bandwidth Exceptional output stability at 0.05 dB drift over 12-hour intervals High return loss (>55 dB) minimizes back-reflections from connected components Operating temperature range: –10°C to 60°C; non-condensing humidity to 95% RH Typical Applications Spectral measurements of optical components (couplers, WDMs, isolators) Manufacturing and R&D compliance testing Noise loading for system characterization Polarization mode dispersion (PMD) measurements Compatibility & Integration FC/APC bulkhead interface with optional industry-standard connector and pigtail configurations. Compatible with JDS FIBER optical component ecosystems.

# BNS1415 Characteristics / Specifications

| PARAMETER                   | VALUE                                            |
|-----------------------------|--------------------------------------------------|
| Model                       | BNS1415                                          |
| Instrument Type             | Broadband erbium ASE source                      |
| Test Band                   | C band                                           |
| Operating Wavelength Range  | 1527 to 1568 nm                                  |
| Total Optical Power         | 20 mW maximum                                    |
| Optical Interface           | FC/APC                                           |
| Doping                      | erbium-doped broadband source                    |
| Form Factor                 | benchtop ASE source                              |
| Manufacturer                | JDS Uniphase / VIAVI                             |
| Use Case                    | C-band broadband optical stimulus                |
| Control                     | BNS1415 front panel / remote class               |
| Operating Temperature Class | optical benchtop laboratory window               |
| Literature                  | JDS BNS1415 Broadband Erbium ASE Source listings |
| Family                      | BNS1415                                          |
| Related Edfa                | OAB1415 instrumentation EDFA                     |
| Documentation Type          | OEM ASE source catalog                           |
| Brand Lineage               | JDS Uniphase VIAVI                               |
| System Role                 | C-band ASE source                                |
| Fiber Class                 | single-mode C-band                               |
| Spectrum Class              | flattened/unflattened per BNS1415 sheet          |
| Power Display Class         | total optical power                              |
| Connector Class             | FC/APC as listed                                 |
| Calibration Source          | OEM published specifications                     |
| Wavelength range            | 1527 to 1568 nm                                  |
| Operating temperature       | Class: optical benchtop laboratory window        |

# BNS1415 Specifications

| PARAMETER                                        | VALUE                     |
|--------------------------------------------------|---------------------------|
| JDS Uniphase BNS1415 Broadband Erbium ASE Source | Overview                  |
| FC/APC optical interface                         | Benchtop broadband source |
| Technical Specifications                         | Model: BNS1415            |

# General Specifications & Supplementary Characteristics

| PARAMETER                   | VALUE                                                                                                                                                                                                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature       | Class: optical benchtop laboratory window                                                                                                                                                                               |
| Operating Temperature       | Class: optical benchtop laboratory window                                                                                                                                                                               |
| Operating Temperature Class | optical benchtop laboratory window                                                                                                                                                                                      |
| Literature                  | JDS BNS1415 Broadband Erbium ASE Source listings                                                                                                                                                                        |
| Family                      | BNS1415                                                                                                                                                                                                                 |
| Related Edfa                | OAB1415 instrumentation EDFA                                                                                                                                                                                            |
| Documentation Type          | OEM ASE source catalog                                                                                                                                                                                                  |
| Brand Lineage               | JDS Uniphase VIAVI                                                                                                                                                                                                      |
| System Role                 | C-band ASE source                                                                                                                                                                                                       |
| Fiber Class                 | single-mode C-band                                                                                                                                                                                                      |
| Spectrum Class              | flattened/unflattened per BNS1415 sheet                                                                                                                                                                                 |
| Power Display Class         | total optical power                                                                                                                                                                                                     |
| Connector Class             | FC/APC as listed                                                                                                                                                                                                        |
| Calibration Source          | OEM published specifications Notes From JDS Uniphase BNS1415 Broadband Erbium ASE Source listings (C band, 1527-1568 nm, 20 mW max, FC/APC). Spectral density, ripple, and residual pump are on the BNS1415 data sheet. |

# 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                                                                                                                                                                                | BNS1415                                          |
| Instrument Type                                                                                                                                                                      | Broadband erbium ASE source                      |
| Test Band                                                                                                                                                                            | C band                                           |
| Operating Wavelength Range                                                                                                                                                           | 1527 to 1568 nm                                  |
| Total Optical Power                                                                                                                                                                  | 20 mW maximum                                    |
| Optical Interface                                                                                                                                                                    | FC/APC                                           |
| Doping                                                                                                                                                                               | erbium-doped broadband source                    |
| Form Factor                                                                                                                                                                          | benchtop ASE source                              |
| Manufacturer                                                                                                                                                                         | JDS Uniphase / VIAVI                             |
| Use Case                                                                                                                                                                             | C-band broadband optical stimulus                |
| Control                                                                                                                                                                              | BNS1415 front panel / remote class               |
| Operating Temperature Class                                                                                                                                                          | optical benchtop laboratory window               |
| Literature                                                                                                                                                                           | JDS BNS1415 Broadband Erbium ASE Source listings |
| Family                                                                                                                                                                               | BNS1415                                          |
| Related Edfa                                                                                                                                                                         | OAB1415 instrumentation EDFA                     |
| Documentation Type                                                                                                                                                                   | OEM ASE source catalog                           |
| Brand Lineage                                                                                                                                                                        | JDS Uniphase VIAVI                               |
| System Role                                                                                                                                                                          | C-band ASE source                                |
| Fiber Class                                                                                                                                                                          | single-mode C-band                               |
| Spectrum Class                                                                                                                                                                       | flattened/unflattened per BNS1415 sheet          |
| Power Display Class                                                                                                                                                                  | total optical power                              |
| Connector Class                                                                                                                                                                      | FC/APC as listed                                 |
| Calibration Source                                                                                                                                                                   | OEM published specifications                     |
| Notes                                                                                                                                                                                |                                                  |
| From JDS Uniphase BNS1415 Broadband Erbium ASE Source listings (C band, 1527-1568 nm, 20 mW max, FC/APC). Spectral density, ripple, and residual pump are on the BNS1415 data sheet. |                                                  |

### 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

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NIST-traceable calibration · SAM registered ·  
30-day returns  
NAICS 423690 · 811210 · 541380  
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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.