

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 1, 2026

JDS UNIPHASE

JDS Uniphase BROADBAND SOURCE model BBS1550+2FA30

The JDS Uniphase BBS1550+2FA30 is a C-band broadband light source engineered for fiber optic testing and measurement applications. It generates amplified spontaneous emission (ASE) across the 1527–1568 nm wavelength range, with optical gain flattening applied across 1529–1565 nm to deliver a stable, uniform spectral output. The instrument is deployed in manufacturing and R&D environments for optical component spectral characterization and systems compliance testing. Classified as Class IIb, the source operates from single-phase AC mains (100–240 V, 50–60 Hz) and delivers regulated output with ± 0.02 dB power stability over one hour at 23 °C following warm-up. The benchtop half-rack form factor measures 21.2 × 8.9 × 35.5 cm and weighs under 4 kg; optional 19-inch rack-mount integration is available. Safety compliance includes FDA 21CFR 1040.10 and IEC 60825-1 (2002). Compatibility & Int



MODEL

**JDS Uniphase
BBS1550+2FA30**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

BBS1550+2FA30

LISTING

<https://aumictechlabs.com/products/bbs1550-2fa30-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDS Uniphase BBS1550+2FA30 is a C-band broadband light source engineered for fiber optic testing and measurement applications. It generates amplified spontaneous emission (ASE) across the 1527–1568 nm wavelength range, with optical gain flattening applied across 1529–1565 nm to

deliver a stable, uniform spectral output. The instrument is deployed in manufacturing and R&D environments for optical component spectral characterization and systems compliance testing. Classified as Class IIIb, the source operates from single-phase AC mains (100–240 V, 50–60 Hz) and delivers regulated output with ± 0.02 dB power stability over one hour at 23 °C following warm-up. The benchtop half-rack form factor measures 21.2 × 8.9 × 35.5 cm and weighs under 4 kg; optional 19-inch rack-mount integration is available. Safety compliance includes FDA 21CFR 1040.10 and IEC 60825-1 (2002).

Technical Specifications

Wavelength Range:	1527–1568 nm (C-band)
Gain Flattened Range:	1529–1565 nm
Spectral Gain Flatness:	≤ 1.6 dB
maximum Total Optical Power:	>50 mW minimum; maximum 180 mW (FDA 21CFR 1040.10 compliant)
Output Power Stability:	± 0.02 dB over one hour at 23 °C (post warm-up)
Output Isolation:	≥ 45 dB
Output Connector Options:	FC/PC, FC/APC, SC/PC, SC/APC
Laser Classification:	Class IIIb
Power Consumption:	90 VA maximum
Mains Input:	100–240 V AC, 50–60 Hz, single-phase
Operating Temperature:	0–50 °C
Storage Temperature:	–40–70 °C
Humidity:	$\leq 95\%$ RH non-condensing (0–45 °C)
Dimensions:	21.2 W × 8.9 H × 35.5 D cm
Weight:	<4 kg

Key Features

- Gain-flattened ASE output ensures uniform spectral response
- Tight output power stability for repeatable measurements
- High output isolation minimizes back-reflections
- Compact benchtop design with optional rack-mount configuration
- Dual safety compliance (FDA and IEC standards)

Typical Applications

- Optical component spectral measurement
- Systems compliance testing
- Optical measurement systems
- Sensor and imaging applications

Compatibility & Integration

Multiple connector options (FC and SC variants, PC and APC polished finishes) enable direct integration into diverse optical test benches and automated measurement platforms.

Features & description

From manufacturer datasheet

Features

- C-band ASE broadband source, 1527 to 1568 nm
- High total output power option: 250 mW (ordering code 30)
- Flattened spectrum: spectral gain flatness 1.8 dB maximum over the gain-flattened range (2.5 dB flatness figure also listed for the 250 mW C-band column in the brochure table)
- Gain-flattened range: 1529 to 1565 nm
- High spectral stability: total output power stability 0.02 dB (1 hour at 23 C after 1 hour warm-up, measured at 1547 nm)
- Output isolation: 45 dB minimum
- FC/APC optical connector (code FA)
- Compact benchtop package; optional 19-inch rackmount kit

BBS15502FA30 Characteristics / Specifications

PARAMETER	VALUE
Model	BBS1550+2FA30
Manufacturer	JDS Uniphase (JDSU)
Instrument Type	Benchtop erbium ASE broadband source
Test Band	C-band
Operating Wavelength Range	1527 to 1568 nm
Total Output Power	250 mW (option code 30)
Spectral Gain Flatness (maximum)	1.8 dB (brochure); 2.5 dB also shown in the 250 mW C-band flatness column
Gain Flattened Range	1529 to 1565 nm
Total Output Power Stability	0.02 dB (at 1547 nm, 23 C, 1 hour after 1 hour warm-up)
Output Isolation (minimum)	45 dB
Optical Connector	FC/APC, standard single output
Input Voltage	100 to 240 VAC, 50 to 60 Hz
Power Consumption	90 VA maximum
Operating Temperature	0 to 50 C
Storage Temperature	-40 to 70 C
Humidity	maximum 95% RH non-condensing from 0 to 45 C
Dimensions (WxHxD)	21.2 × 8.9 × 35.5 cm
Weight	less than 4 kg
Laser Safety	Class 3B per IEC 60825-1 (2002) class brochure marking; complies with 21 CFR 1040.10 with stated deviations
High total output power option	250 mW (ordering code 30)
Flattened spectrum	spectral gain flatness 1.8 dB maximum over the gain-flattened range (2.5 dB flatness figure also listed for the 250 mW C-band column in the brochure table)
Gain-flattened range	1529 to 1565 nm

PARAMETER	VALUE
High spectral stability	total output power stability 0.02 dB (1 hour at 23 C after 1 hour warm-up, measured at 1547 nm)
Output isolation	45 dB minimum
Wavelength range	1527 to 1568 nm
Power stability	0.02 dB (1 hour at 23 C after 1 hour warm-up, measured at 1547 nm) - Output isolation: 45 dB minimum - FC/APC optical connector (code FA) - Compact benchtop package; optional 19-inch rackmount kit

BBS15502FA30 Specifications

PARAMETER	VALUE
Key Features	- C-band ASE broadband source, 1527 to 1568 nm
Technical Specifications	Model: BBS1550+2FA30
Standard Operating Conditions	Warm up one hour before quoting the 0.02 dB stability figure. Use APC-compatible jumpers. Observe Class 3B laser safety practices.
Operational Notes	Do not confuse with BBS1550+2FA20 (150 mW) or BBS1590 L-band models. Confirm faceplate marking matches +2FA30 before acceptance testing.

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	maximum 95% RH non-condensing from 0 to 45 C
Dimensions (WxHxD)	21.2 × 8.9 × 35.5 cm
Weight	less than 4 kg
Laser Safety	Class 3B per IEC 60825-1 (2002) class brochure marking; complies with 21 CFR 1040.10 with stated deviations

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	BBS1550+2FA30
Manufacturer	JDS Uniphase (JDSU)
Instrument Type	Benchtop erbium ASE broadband source
Test Band	C-band
Operating Wavelength Range	1527 to 1568 nm
Total Output Power	250 mW (option code 30)
Spectral Gain Flatness (maximum)	1.8 dB (brochure); 2.5 dB also shown in the 250 mW C-band flatness column
Gain Flattened Range	1529 to 1565 nm
Total Output Power Stability	0.02 dB (at 1547 nm, 23 C, 1 hour after 1 hour warm-up)
Output Isolation (minimum)	45 dB
Optical Connector	FC/APC, standard single output
Input Voltage	100 to 240 VAC, 50 to 60 Hz
Power Consumption	90 VA maximum
Operating Temperature	0 to 50 C
Storage Temperature	-40 to 70 C
Humidity	maximum 95% RH non-condensing from 0 to 45 C
Dimensions (WxHxD)	21.2 x 8.9 x 35.5 cm
Weight	less than 4 kg
Laser Safety	Class 3B per IEC 60825-1 (2002) class brochure marking; complies with 21 CFR 1040.10 with stated deviations

Ordering Code Breakdown

BBS + 1550 (C-band) + 2 (standard one output) + FA (FC/APC) + 30 (250 mW). Related codes: FP/SC/SU connectors; power 00/20/30; optional four outputs (code 4) on some BBS1550 variants.

Standard Operating Conditions

Warm up one hour before quoting the 0.02 dB stability figure. Use APC-compatible jumpers. Observe Class 3B laser safety practices.

Operational Notes

Do not confuse with BBS1550+2FA20 (150 mW) or BBS1590 L-band models. Confirm faceplate marking matches +2FA30 before acceptance testing.

Laser Safety

Laser Safety: Class 3B per IEC 60825-1 (2002) class brochure marking; complies with 21 CFR 1040.10 with stated deviations Ordering Code Breakdown BBS + 1550 (C-band) + 2 (standard one output) + FA (FC/APC) + 30 (250 mW). Related codes: FP/SC/SU connectors; power 00/20/30; optional four outputs (code 4) on some BBS1550 variants. Standard Operating Conditions Warm up one hour before quoting the 0.02 dB stabil

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

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

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 1, 2026

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