

Broadband Source

The JDS Uniphase high power Broadband Source emits a higher optical output than conventional EELEDs and operates over the EDFA (1525-1610 nm) window.

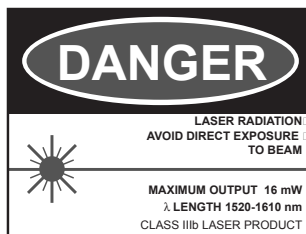
Through optimization of spectral power density, spectral uniformity and optical stability, the broadband source maximizes your capabilities of optical component spectral measurements and systems compliance tests both in manufacturing and research and development environments.

The optical broadband source incorporates erbium-doped fiber to produce amplified spontaneous emission or a semiconductor device to produce a broad high power optical spectrum.

By optically pumping an erbium-doped fiber, the C, L and C+L-band source emits a flattened amplified spontaneous emission (ASE) optical spectrum over their entire wavelength range.

Safety Information

Complies to FDA 21CFR 1040.10 for Class IIIB Lasers



Key Features & Benefits

Wide choice of wavelengths (C, L, and C+L)

Flattened output power spectrums

High output power density

Option of multiconnector outputs

High spectral stability

Compact benchtop design with rack-mount kit

Complies to CE requirements plus UL3101-1 and CAN/CSA-C22.2 No. 1010.1

Applications

Optical component spectral tests

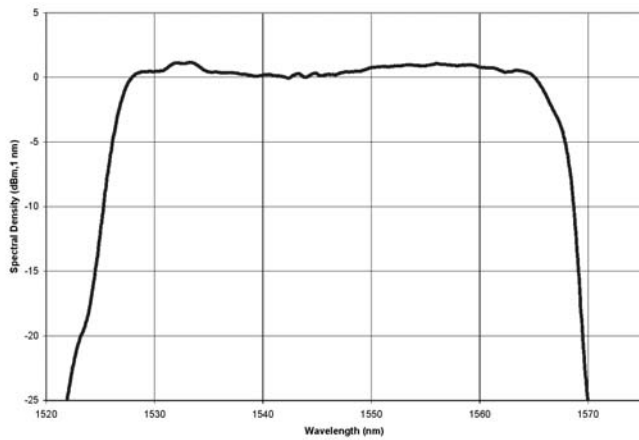
Systems compliance tests

Optical measurement systems

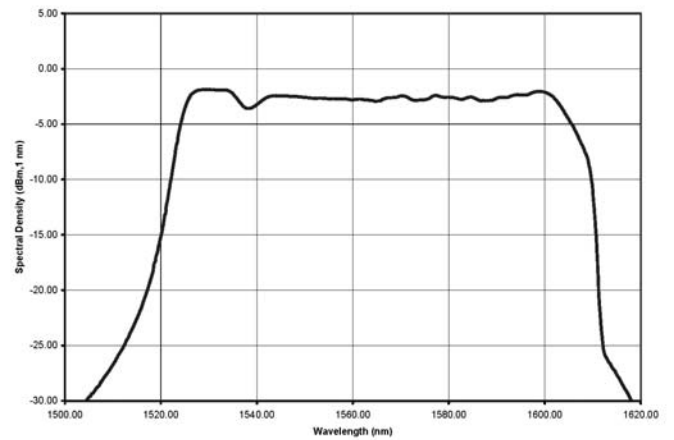
Sensors and imaging

Spectral Density Plots

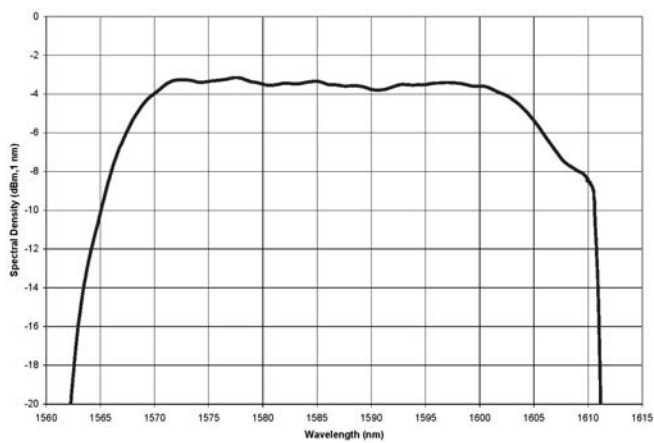
BBS1550+2XX00 C-band 50 mW



BBS1560+2XX00 C+L-band 20 mW



BBS1590+2XX00 L-band 20 mW



Specifications

PARAMETER	BBS1550			BBS1590	BBS1560
Test band	C-band			L-band	C+L-band
Operating wavelength range	1527-1568 nm			1565-1610 nm	1525-1610 nm
Gain flattened spectrum	Yes			Yes	Yes
Total optical power ^{1,2,3} (minimum)	> 50 mW	> 100 mW	> 150 mW	> 20 mW	> 20 mW
Spectral gain flatness (maximum)	1.6 dB	1.6 dB	1.8 dB	1.8 dB	2.5 dB
Gain flattened range	1529-1565 nm			1570-1603 nm	1526-1603 nm
Total output power stability ⁴	0.02 dB				
Output isolation (minimum)	45 dB				
Output connector	FC/PC, FC/APC, SC/PC, SC/APC				
Packaging	half rack benchtop and 19-inch rack-mount kit				
Dimensions W x H x D	21.2 x 8.9 x 35.5 cm				
Weight	< 4 kg				
Operating temperature	0 to 50 °C				
Storage temperature	- 40 to 70 °C				
Humidity	maximum 95 % RH non condensing from 0 to 45 °C				

Maximum output power not greater than 180 mW for BBS1550 and BBS1560 and 28 mW for BBS1590 as per FDA 21CFR 1040.10 for Class IIb lasers.

1. Measured at 1547 nm (C-band) at 23 °C.
2. Measured at 1586 nm (L-band) at 23 °C.
3. Measured at 1561 nm (C+L-band) at 23 °C.
4. Over one hour at 23 °C, after one hour of warm-up.

Ordering Information

Sample Order: BBS0980+FP00

BBS **+2**

code	model
1550	C-band, 1527-1568 nm
1590	L-band, 1565-1610 nm
1560	C+L-band, 1525-1610 nm

code	connector type
FP	FC/PC
FA	FC/APC
SC	SC/PC
SU	SC/APC

code	output power
0	Standard power output
1	High output power ≥ 100 mW (available for BBS1550)
2	High output power ≥ 150 mW (available for BBS1550)

code	connectors
0	Standard one output connector
4	Optional four output connectors for BBS1550 high power versions

Indicate your requirements by selecting one option from each configuration table. Print the corresponding codes in the available boxes to form your part number.

Standard Accessories

Part Number	Description
ED000899-A-00	Standard 19-inch rack-mount kit

Optional Accessories

Part Number	Description
ED000899-A-01	Rack-mount kit (Japan)

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