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Flat High-Power Broadband Sources
EBS-4022, EBS-4022L, EYBS-3527

EBS-4022

The EBS-4022 Erbium Broadband Source is an extremely stable, flattened broadband source delivering 22 dBm in a 40-nm wide spectrum spanning the whole Erbium C band. It utilizes amplified spontaneous emission (ASE) from diode-pumped Erbium-doped fiber and a spectral shaping scheme which flattens the output to better than 1 dB from 1527 to 1567 nm.

Featuring the same power-spectral density as a full set of 100-GHz spaced DFB lasers, the EBS-4022 can dramatically reduce equipment costs in a variety of telecommunications test sets. As a powerful, flat source, it also naturally lends itself to local networking using spectral slicing or optical code-division multiplexing.

The very high power of the EBS-4022 provides an unsurpassed, uniform dynamic range for the characterization of passive optical components such as array waveguides. Testing is quick and precise, and with the remarkable spectral stability of the EBS-4022, frequent spectrum recording is unnecessary.

Applications

- Wide-dynamic-range characterization of components such as AWGs and FBGs
- Alternative to multiple DFB lasers and multiplexer in telecommunications test sets
- Accurate gain-spectrum measurement of EDFAs with spectral-hole burning included
- Local networking using spectral slicing or optical code-division multiplexing
- PMD measurements of long-span fiber links
- Fiber sensing
- Gyroscopes
- White-light interferometry

EBS-4022L

An extremel stable, flattened broadband source delivering 21 dBm in a 40-nm wide spectrum spanning the whole L-Band.

ASE spectra-shaping scheme flattens the output from 1567 to 1607 nm

Very high power provides an unsurpassed, uniform dynamic range for the characterization of passive optical components such as array wavelengths

Applications

- Wide-dynamic-range characterization of components such as AWGs and FBGs in the L band
- Alternative to multiple DFB lasers and multiplexer in telecommunications test sets
- Accurate gain-spectrum measurement of EDFAs with spectral-hole burning included
- Local networking using spectral slicing or optical code-division multiplexing
- PMD measurements of long-span fiber links
- Fiber sensing

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- Gyroscopes
- White-light interferometry

EYBS-3527

A high-power, spectrally-flattened broadband source delivering 27 dBm in a 35nm wide spectrum spanning the C-band.

- Allows loss measurements to be made over the C-band with a uniform, large dynamic range with equal precision
- Equipped with output isolation to provide protection against back-reflections from the device under test

Applications

- Spectral measurements of C-band DWDM components
- Accurate EDFA gain spectrum measurements
- Telecom systems compliance tests
- PMD measurements of long-span fiber links
- Fiber senors and gyroscopes

Specifications

Flat High-Power Broadband Sources

	EBS-4022	EBS-4022L	EYBS-3527	
Total Output Power (typical)	22	≥ 21	27	dBm
Spectral Width				
@ 3 dB	≥ 40	≥ 40	35	nm
@ 20 dB	58	58		nm
Ripple (typical)	1 dB over ≥ 38 nm	≤ 1.5 peak to peak	1 dB over ≥ 32 nm	

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