



B-Series

ASE Broadband Source (BBS)

B-1000 C-band BBS

The B-1000 broadband source is specially designed for bandwidth demanding applications. It covers the entire C-band wavelength range thus producing a broadband spectrum. It has been designed for excellent spectral and power performance with high power density and spectral stability. These performance parameters ensure that the B-1000 delivers highly accurate spectral characterization of DWDM passive component such as thin film filters (TFF) and FBGs. In a sensing environment the B-1000 is an excellent choice for monitoring and detection of sensors accurately and in determining various sensing parameters such as pressure, temperature, stress, air-flow, fatigue etc. The B-1000 can be easily integrated with an OSA or a wavelength meter to produce the best measurement accuracy over a broad bandwidth with a single sweep. Additional features of this model are the variable dynamic range that it offers according to the users' needs. Wavelength flattening comes as optional.

The B-1000 bench-top version has a large LCD panel that displays the present status of the unit. It comes with software assisted *APC* (Automatic Power Control) mode that enables it to operate the output at a pre-set constant power level. The software and control electronics has been designed for extremely precise monitoring and controlling of devices.

Contact us for customized requirements.

Features

- Bandwidth: entire C-band
- Isolated Output
- Excellent spectral and power stability
- High spectral density
- Large view LCD panel
- Microcontroller controlled
- Configurable constant output power
- User-friendly monitoring via RS232

Applications

- DWDM component spectral testing
- Optical Sensing System
- Optical fiber characterization
- Optical component fabrication (FBG, Coupler, TFF, AWG, etc.)
- Wavelength loss measurement
- Spectroscopy

Technical Specifications B-1000 C-band BBS

Optical Characteristics

Parameter	Typical Value	Unit
Operating Region	C- band	-
Wavelength Range	1525 to 1565	nm
Spectral Density	-15	dBm/nm
Total Output Power	>14	dBm
Output Power stability*	0.02	dB
Wavelength stability*	<0.01	nm
Output Isolation	35	dB

* @ 25°C for 24-hrs (after 1-hr. warm-up)

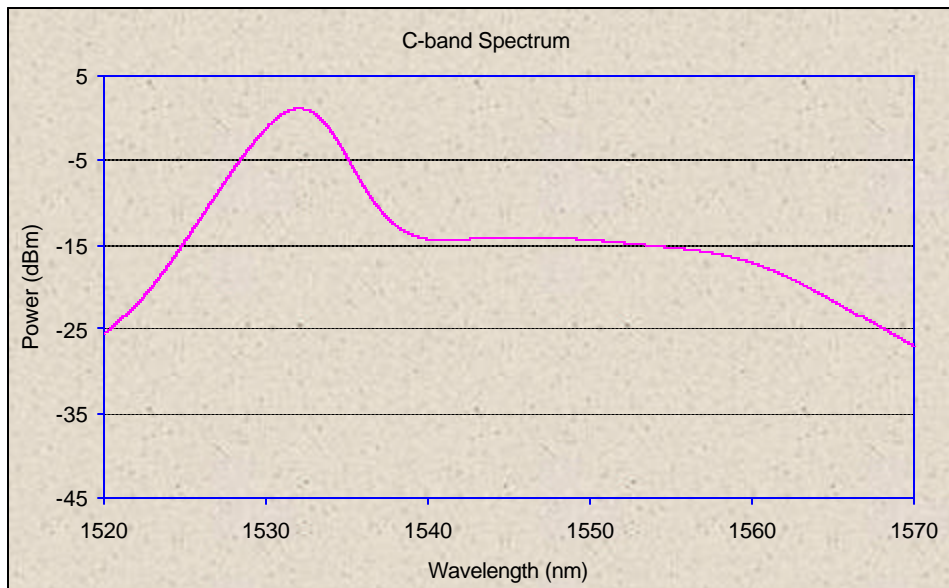
Electrical Characteristics

Parameter	Typical Value	Unit
Operating Voltage	100 to 240	VAC
Power Consumption	10W	W
Communication Interface	RS232	-

Mechanical & Environmental Characteristics

Parameter	Typical Value	Unit
Dimension (WxDxH)	260 x 250 x 90	mm
Fibre Termination Type	FC	-
Polishing Type	PC	-
Operating Temperature	0 to 50	°C
Storage Temperature	-20 to 65	°C
Humidity (non condensing)	0 to 85	%
Weight	4.0	kg

Spectral Output



Notes:

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