



B-Series

ASE Broadband Source (BBS)

B-3000 C+L-band BBS

The B-3000 broadband source is specially designed for bandwidth demanding applications. It covers both the C-band and the L-band wavelength range thus producing an ultra 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-3000 delivers highly accurate spectral characterization of DWDM passive component such as thin film filters (TFF) and FBGs. In a sensing environment the B-3000 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-3000 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-3000 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

- Wide wavelength range C- plus L-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-3000 C+L-band BBS

Optical Characteristics

Parameter	Typical Value	Unit
Operating Region	C- plus L-band	-
Wavelength Range	1525 to 1605	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)

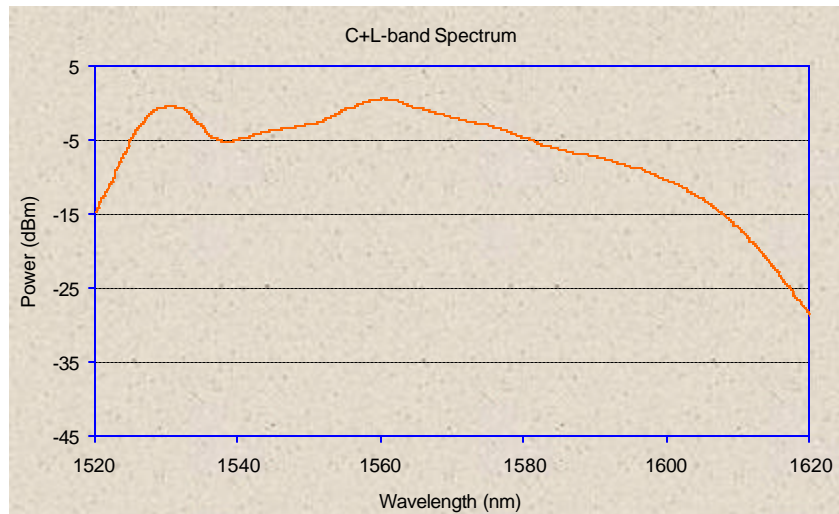
Electrical Characteristics

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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