

## Broadband ASE Source, C-band OEM module

**Model no.: BBS-C**



### Description

This C-band Broadband ASE Source is based on amplified spontaneous emission from a semiconductor diode pumped Erbium doped fiber, and delivers a high spectral density output in the wavelength range 1525nm – 1570nm. It includes drive and control electronics. Upon request, it allows for external Enable/Disable and external control of the pump laser diode current.

### Optical parameters (at 25°C)

Parameter	Specification	Unit
Emission wavelength band (@10dB)	1525 – 1570	nm
Output optical power	> 50	mW
Power stability <sup>1</sup>	± 0.1	dB
Noise RMS <sup>2</sup>	0.25	%

<sup>1</sup> 24h, 18-30C ambient, after 1h warm up

<sup>2</sup> DC to 25 MHz, corrected for detector noise

### Optical connections

Fiber type	SMF-28 or equivalent
Connector type	FC/APC, key width 2.02 mm

### Electrical parameters (at 25°C)

Parameter	Specification	Unit
DC Power supply	+5	V
Power consumption	< 10	W

### Mechanical and environmental specifications

Parameter	Specification	Unit
Operating case temperature	5 - 55	C
Storage temperature	-5 - 75	C
Humidity	0 - 95, Non-condensing	%
Dimensions (WxDxH)	120 x 90 x 25	mm

### Typical optical emission spectrum

