



CEBS SERIES

CW ERBIUM BROADBAND SOURCE



Features

- High output power density ($> +13$ dBm/nm)
- Flattened output power spectrum
- High spectral stability
- Linear or random polarization
- User-friendly turnkey benchtop

Applications

- Optical component characterization
- Optical measurement systems
- Optical sensing

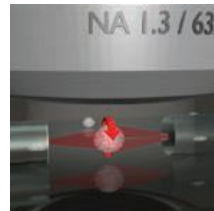
Description

The CEBS series Erbium doped fiber broadband sources are designed for wide and flat spectral range operation up to 1W of total output power.

Optical gain is filtered and flattened in order to achieve the widest spectral operation with minimum power variation across the spectrum.

The sources are available in linear or random polarization with respectively high or low degree of Polarization.

These products are proposed in turnkey benchtop instruments with front panel and RS232 controls.





Specifications

Model	CEBSm1	CEBSm2	CEBSm5	CEBS01
Mode of operation	CW			
Total optical power ¹	0,1 W	0,2 W	0,5 W	1.0 W
Spectral range	1529-1562 nm (BW00)			
Spectral power density	>+3 dBm/nm	>+6dBm/nm	>+10dBm/nm	>+13dBm/nm
Spectral gain flatness ²	<+/-1dB at nominal power			
Total output power stability ³	<0,05dB			
Output isolation	>40dB			
Output monitoring	Option (OM1)			
Polarization ⁴	Random (DOP<5%) or linear (DOP>98%)			
Control mode	ACC, APC			
APC Tunability	30 - 100%			
Optical port fiber type	SMF28 or PANDA			
Input / Output termination	FC/SPC, FC/APC			
Associated platform	B201		B203	

Platform Specifications

Platform type	B201/B203
Voltage	84 to 264 VAC, 47-63 Hz
Control Interface	Front panel and RS232
Optical interface	3mm PVC, 1m
Warm-up time	< 15min
Dimensions	448x446x88 mm (2U, 19")
Weight	< 15 kg
Operating case temperature	+15°C to +35°C
Storage temperature	-20°C to +55°C

1 Measured at 1550 nm

2 Flatness within the spectral range

3 Over15 min. after warm-up time

4 $DOP(\%) = (1 - PER) / (1 + PER) \times 100$ with PER (Polarization extinction ratio expressed in linear scale)

Ordering information

C E B S		B W		O M			
Polarization		Output power (W)		Output Monitor & APC		Output termination	
R	P	m 1	0,1 W	1	Yes	F	A
L	P	m 2	0,2 W	0	No	F	S
Bandwidth		m 5	0,5 W	Platform			
B	W	0	0	B	2	0	1
1529-1562nm				B	2	0	3