CEBS

CW ERBIUM BROADBAND SOURCE

KEOPSYS BY LUMIBIRD

1.5 µm

B 130

High output power density (>+13 dBm/nm)

The CEBS series are CW Erbium Broadband Source designed to deliver an optical signal over the C-band with a flat spectrum response.

It can provide up to 13 dBm/nm of optical power density.
The CEBS can be used in many applications such as components characterization, optical measurement systems or optical sensing.

The optical architecture integrates gain flattening filters in order to achieve the widest spectral operation with minimum power variation across the spectrum.
The source is available in linear or random polarization and is proposed in turnkey benchtop version. The benchtop platform offers the possibility to control the source via the front panel or remotely via serial USB and Ethernet ports.

Key features

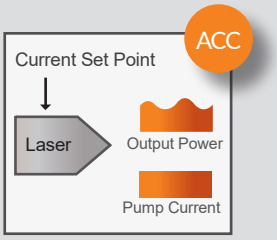
- High output power density (>+13 dBm/nm)
- Flattened output power spectrum
- High spectral stability
- Linear or random polarization
- User-friendly turnkey benchtop

What applications

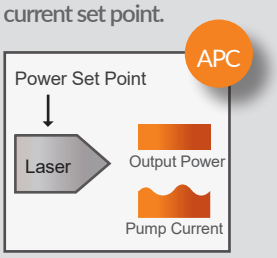
- Optical component characterization
- Optical measurement systems
- Optical sensing

Modes of operation

The devices offer several modes of operation :



ACC (Automatic Current Control) mode is standard for all devices. The laser is controlled from diodes current set point.



APC (Automatic Power Control) mode allows controlling the laser at a fixed output power set point. The device maintains a constant optical output power monitored with a photodiode. The current is adjusted automatically.

For ordering information and custom solutions, please contact us : websales@keopsys.com

Non contractual photos

CEBS

CW ERBIUM BROADBAND SOURCES

Optical Specifications @ 25 °C	CEBS			
	CEBSm1	CEBSm2	CEBSm5	CEBS01
Mode of operation	CW			
Total optical power	0.1 W	0.2 W	0.5 W	1.0 W
Spectral range	1529-1562 nm (BW00)			
Spectral power density	> +3 dBm/nm	> +6 dBm/nm	> +10 dBm/nm	> +13 dBm/nm
Spectral gain flatness	<+/-1 dB at nominal power			
Total output power stability	<0,05 dB			
Output isolation	>40 dB			
Output monitoring	Option			
Polarization	Random or linear			
Input / Output termination	FC/SPC, FC/APC			

The CEBS continuum sources are available as turn-key benchtop

RELIABILITY

The Lumibird range of fiber lasers are manufactured with tested components and are submitted to several inspections during the manufacturing process under a rigorous quality management certified in accordance with the ISO 9001:2015 standard. Our all-in-fiber systems offer maintenance-free operation. Countless units are continuously running in demanding environments with no failure.

GUARANTEE

Our fiber systems are under 1 full year parts and labor warranty.
We offer a warranty extension of 1 or 2 years. Please contact us.

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RoHS REACH COMPLIANT

LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION
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