



**Solutions, When the Conventional Ones
Run Out of Breath**



OFLS-B

OPTICAL FIBER LIGHT SOURCE - BROADBAND

Broadband diodes to light up your application

The OFLS-B series deploys the standard universal OFLS driving platform for broadband fiber optic light sources. It is based on super luminescent light emitting diodes (SLD or SLED) within different wavelength ranges covering visible (VIS) and near infrared regions (NIR) with different output power and bandwidth coming from single mode optical fiber.

The SLED diodes features make the light source ideal for a very large scale of application ranging from civil engineering, through structural analysis to composite material manufacturing. Particularly, the advantage of their wide bandwidth, high optical power spectral density, low ripple, high polarization extinction ratio and operating wavelengths are mostly demanded in these fields.

Spectral range

The light emitted by the SLED modules is distributed over a wide spectral range starting at 400 nm up to 1700 nm.

High output power

Optical power at the output of the single mode fiber is typically from few mW up to 30+ mW, depending on chosen SLD diode.

Large bandwidth

The typical values of the BW range between 3 nm and 20 nm for VIS region and between 20 nm and 160 nm for NIR region.

PRODUCT VERSIONS

The light source can be delivered either in standard compact version for handheld operation and easy storage or OEM version for further integration into customer's systems.



KEY PRODUCT FEATURES & BENEFITS

Fiber output

The device output is characterized by single mode optical fiber, terminated by FC/APC connector. Either standard SMF is used for the 1230-1700 nm range or special small diameter SMF for the 400-1200 nm range.

Spectral ripple

The variation of the spectral power-density exhibits extremely low values even at the highest power levels.

Superior performance

Optical light source exhibits very high stability and performance in various environments and over long periods of time.

Low coherence length

The SLED modules exhibit low coherence length which is typically in μm range demanded in medical imaging applications like OCT.

Optional features

The light sources can be equipped by optional components for output isolation, depolarization or any other.

Diode packages

The laser sources can deploy various types of diodes in different packing, such as BTF, DIL, H8, TOSA and many others.

PRODUCT APPLICATIONS



PRODUCTION, TELECOMMUNICATION

Fiber optic component testing, CD & PMD measurements



FIBER OPTIC GYROSCOPE

Rotation measurement, navigation systems, avionics, aerospace, sea, terrestrial



FIBER OPTIC SENSING

SHM, temperature, strain, static and dynamic measurements



RESEARCH AND DEVELOPMENT

Novel and undiscovered applications



MEDICAL IMAGING

OCT, confocal microscopy, dental and skin tissue examinations



INDUSTRY

Lighting source, machine vision and imaging systems



METROLOGY

Prototyping, reverse engineering, tool inspection

TECHNICAL SPECIFICATION

Optical

Other optical parameters are dependent on chosen diode type	Central wavelength, bandwidth, optical power, spectral ripple, etc.
Fiber type	SMF
Fiber output	FC/APC connector other connectors on request
Optional features	Output isolation Output depolarization

GET IN TOUCH WITH US
and we will recommend you the most suitable solution for your project.

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LIST OF LIGHT SOURCES

Part number	Central wavelength [nm]	Typ. optical power from SMF [mW]	Typical FWHM [nm]	Note
OFLS-B-40-02-20-C	405±15	2	3	
OFLS-B-45-02-20-C	450±10	5	6	
OFLS-B-51-01-10-C	510±10	1.5	10	
OFLS-B-63-03-6-C	635±15	3	6	
OFLS-B-65-03-6-C	650±20	3	6	
OFLS-B-75-02-20-U	750±20	2	20	TOSA with external cooling
OFLS-B-75-05-20-U	750±20	5	20	
OFLS-B-79-05-20-C	790±20	5	20	
OFLS-B-80-10-40-C	800±20	10	40	Flat top
OFLS-B-82-02-25-U	820±20	2	25	TOSA with external cooling
OFLS-B-83-12-20-C	830±20	12	20	
OFLS-B-84-02-50-U	840±20	2	50	TOSA with external cooling
OFLS-B-84-15-48-C	840±20	15	48	Flat top
OFLS-B-85-05-35-C	850±20	5	35	
OFLS-B-85-05-55-C	850±20	5	55	Flat top
OFLS-B-88-12-70-C	880±20	12	70	
OFLS-B-91-15-40-C	910±20	15	40	
OFLS-B-15-10-70-C	1050±20	10	70	Flat top
OFLS-B-15-20-60-C	1050±20	20	60	
OFLS-B-16-20-70-C	1060±20	20	70	Flat top
OFLS-B-17-10-90-C	1070±20	10	90	Flat top
OFLS-B-23-10-45-C	1230±20	10	45	
OFLS-B-27-25-30-C	1270±20	25	30	
OFLS-B-28-8-80-C	1280±20	8	80	
OFLS-B-29-2-60-C	1290±20	2	60	
OFLS-B-30-10-110-C	1300±20	10	110	Flat top
OFLS-B-30-06-120-C	1300±20	6	120	Flat top
OFLS-B-30-15-70-C	1300±20	15	70	
OFLS-B-30-20-50-C	1300±20	20	50	
OFLS-B-31-03-40-U	1310±20	3	40	TOSA with external cooling
OFLS-B-31-20-90-C	1310±20	20	90	Flat top
OFLS-B-31-30-60-C	1310±20	30	60	
OFLS-B-35-25-50-C	1350±20	25	50	
OFLS-B-38-10-40-C	1380±20	10	40	
OFLS-B-48-15-40-C	1480±20	15	40	
OFLS-B-52-02-60-U	1520±20	2	60	TOSA with external cooling
OFLS-B-52-08-60-C	1520±20	8	60	
OFLS-B-55-02-60-U	1550±20	2	60	TOSA with external cooling
OFLS-B-55-05-60-C	1550±20	5	60	
OFLS-B-55-05-160-C	1550±20	5	160	Flat top
OFLS-B-55-10-60-C	1550±20	10	60	Flat top
OFLS-B-55-10-100-C	1550±20	10	100	
OFLS-B-55-15-45-C	1550±20	15	45	
OFLS-B-55-15-90-C	1550±20	15	90	
OFLS-B-55-20-60-C	1550±20	20	60	Flat top
OFLS-B-55-30-40-C	1550±20	30	40	
OFLS-B-57-10-65-C	1570±20	10	65	
OFLS-B-58-20-60-C	1580±20	20	60	
OFLS-B-60-8-60-C	1600±20	8	60	
OFLS-B-61-8-60-C	1615±15	8	60	
OFLS-B-65-10-50-C	1650±15	10	50	
OFLS-B-69-10-50-C	1690±20	10	50	

LOOKING FOR OTHER LIGHT SOURCE?

Feel free to contact us and share your demands.

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