



OFLS-L

OPTICAL FIBER LIGHT SOURCE - LASER

Laser diodes to light up your application

The OFLS-L series deploys the standard universal OFLS driving platform for a wide range of fiber coupled laser sources based on DFB, Fabry-Perot or any other type of laser diodes. The list of available sources covers the wavelength range from VIS to NIR with different output power and linewidth coming either from a single mode or from the polarization maintaining optical fiber.

The wavelength selection of the light source can be driven by ITU-grid in various wavelength bands for telecom applications or by the list of available popular wavelengths for particular applications. The high power lasers can adopt fiber Bragg grating stabilization to lock the emission wavelength in order to provide a noise-free and stable operation. This is usually requested by applications in need of high performance in terms of spectrum control power. Furthermore, a low linewidth performance of the laser can also be provided for distributed fiber sensing, coherent communication, scientific and metrology projects.

Product range

The laser sources are available with a large number of options based on its parameters and performance.

High output power

Optical power at the output of the optical fiber can range from few mW up to hundreds of mW based on the fiber output type.

Fiber output

The most of OFLS outputs can be coupled into single mode (SM) optical fiber. The polarization maintaining (PM) can be used as well.

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

Diode packages

The driving board can support various types of optical modules packing like butterfly (BTF), dual in line (DIL), transmit optical sub-assembly (TOSA) or others.

The TEC packages are also available.

Superior performance

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

Safety operation

The high power lasers are equipped with a turn key system and laser aperture cover for safety operation.

Optional features

The light sources can be equipped by optional components for output isolation, depolarization or any other to cover your requests on the laser source output.

Cooling

The laser source diodes can be equipped with an integrated thermoelectric cooler, thermistor and monitor diode.

Narrow linewidth

The narrow linewidth lasers (kHz, MHz) of different values can also be provided for sensing and interferometric applications.

PRODUCT APPLICATIONS



PRODUCTION

Fiber optic component testing, pumping and seeding, CWDM, DWDM, networking



FIBER OPTIC SENSING

Point and distributed sensing, interferometry, substances detection, static and dynamic measurements, fire/temperature sensing



COMMUNICATION

Navigation systems, avionics, aerospace, sea, terrestrial



RESEARCH AND DEVELOPMENT

Novel and undiscovered applications



MEDICAL IMAGING

Dental, dermatology, hair removal, urology, surgery, varicose veins treatment, wellness



INDUSTRY

Lighting source, machine vision and imaging systems, range finding, night vision, material processing



METROLOGY

Prototyping, reverse engineering, tool inspection

TECHNICAL SPECIFICATION

Optical

Other optical parameters are dependent on chosen diode type	Central wavelength, linewidth, optical power, etc.
Fiber type	SMF, PMF
Fiber output	FC/APC connector Other connectors on request
Optional features	Output isolation FBG stabilization

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	Typ. central wavelength [nm]	Min. optical power in SMF [mW]	Available options			Note
			PMF	TEC	Power range [mW]	
OFLS-L-405-1	405	1	✓	✓	1 - 80	
OFLS-L-445-15	445	15	✓	✓	15 - 50	
OFLS-L-488-10	473	10	✓	✓	10 - 20	
OFLS-L-505-10	505	5	✓	✓	5 - 20	
OFLS-L-520-1	520	1	✓	✓	1 - 25	
OFLS-L-635-1	635	1	✓	✓	1 - 100	
OFLS-L-658-3	658	3	✓	✓	3 - 100	
OFLS-L-670-3	670	3	✓	✓	3 - 10	
OFLS-L-685-10	685	10	✓	✓	10 - 20	
OFLS-L-760-200	760	200		✓		FBG option
OFLS-L-785-5	785	5	✓	✓	15 - 50	
OFLS-L-786-250	786	250		✓		FBG option
OFLS-L-808-15	808	15	✓	✓	5 - 100	
OFLS-L-808-250	808	250		✓		FBG option
OFLS-L-830-5	850	5	✓	✓	15 - 50	
OFLS-L-845-200	845	200		✓		FBG option
OFLS-L-850-10	850	10	✓	✓	10 - 70	
OFLS-L-880-2	880	2	✓	✓		
OFLS-L-905-2	940	2	✓	✓	2 - 30	
OFLS-L-910-300	910	300		✓		FBG option
OFLS-L-940-30	940	30	✓	✓	30 - 70	
OFLS-L-975-100	973 - 981	100		✓	100 - 360	FBG stabilized
OFLS-L-980-5	980	5		✓	5 - 20	
OFLS-L-1030-300	1030	300		✓		FBG option
OFLS-L-1064-15	1064	15	✓	✓	15 - 50	
OFLS-L-1064-300	1064	300		✓		FBG option
OFLS-L-1080-300	1100	300		✓		FBG option
OFLS-L-1100-300	1100	300		✓		FBG option
OFLS-L-1310-2	1310	2	✓	✓	2 - 15	DF/FP
OFLS-L-1550-2	1550	2	✓	✓	2 - 10	DF/FP
OFLS-L-1550-150	1550	150	✓	✓	2 - 10	FBG option
OFLS-L-CWDM-2	1270 - 1610	2	✓	✓	2 - 5	DFB, 18 CWDM with 20 nm spacing
OFLS-L-1625-2	1625	2	✓	✓	2 - 5	DFB
OFLS-L-1650-2	1650	2	✓	✓	2 - 5	DFB

LOOKING FOR OTHER LIGHT SOURCE?

Feel free to contact us and share your demands.