SAFIBRA

Solutions, When the Conventional Ones Run Out of Breath

OFLS

OPTICAL FIBER LIGHT SOURCE DRIVER

Light up your application

The OFLS series is a universal driving platform for fiber optic diode sources of various types regardless of application. It enables you to control operational current and temperature of different kinds of LD or SLD modules for reaching desired performance. Thanks to high performance and stability this driver finds its application in various environments and fits any customer demands.

Compact or OEM version

The light source can be delivered in two different versions - compact lightweight box or OEM driving board.

Superior performance

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

Universal platform

The driving board can support various types of diodes in different packing, such as BTF, DIL, H8, TOSA and many others.

PRODUCT VERSIONS

The light source driver can be delivered either in standard compact lightweight box version or OEM driving board version. The first one is suitable for handheld operation and easy storage, the second one for further integration into customer's systems regardless of used laser or superluminescent LED diodes.

KEY PRODUCT FEATURES & BENEFITS

Stackable module

The modules can be stacked up on top of each other to save space in the laboratory.

Programmable buttons

The compact module is equipped by 3 buttons with preset output power for fast switching. The default values are set to 100%, 50% and 10%. These values can be changed with the SW tool.

External cooling

The TOSA package diodes are mounted into external peltier elements to keep operational temperature stable.

Fast operation

The warm-up time is very short in terms of seconds which enables you fast deployment of the source.

Internal/external modulation

Optical power output can be modulated by internal or external source of modulation. The modulation type is 100% amplitude pulse.

Optional features

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

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
Lightning source, machine vision and imaging systems

TECHNICAL PARAMETERS

Electrical, Environmental and Mechanical

Storage temperature range	-20 °C to +60 °C
Operation temperature range	0 °C to +35 °C
Dimensions	180 x 115 x 46 mm³ (heat-sink version) 200 x 115 x 44 mm³ (TEC version) 113 x 100 x 80 mm³ (OEM version)
Power supply	DC 5 V/2 A
Light source control	Laser diode current Temperature – TEC/External peltier

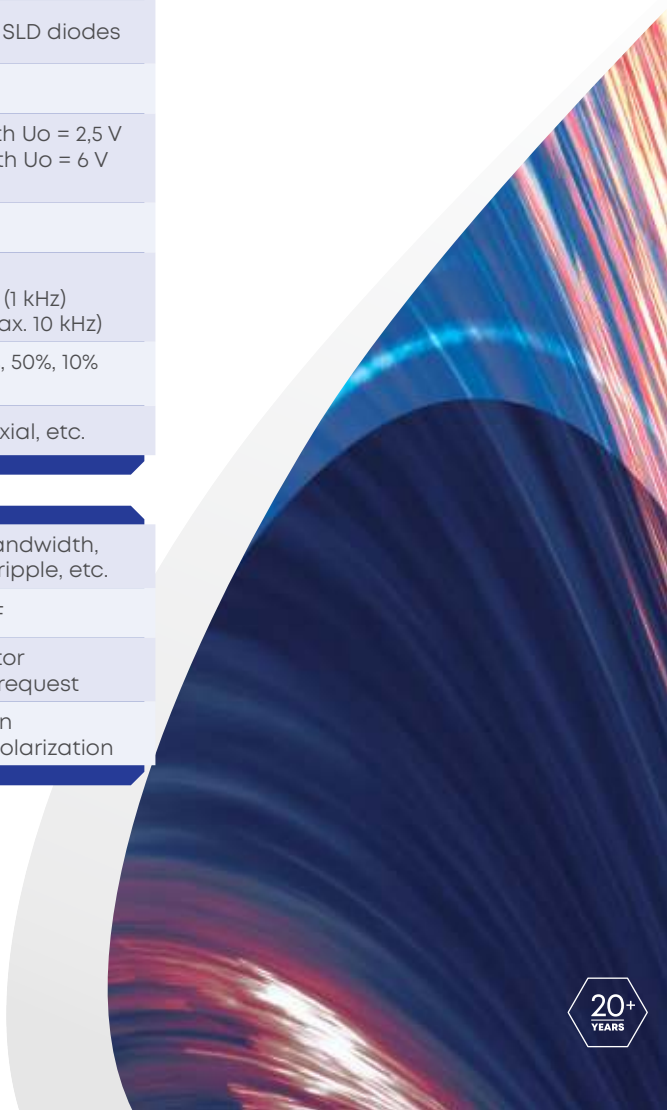
Operational

Power stability	±0,01% short term ±0,02% long term	@ SLD diodes
Temperature stability	±0,01 °C	
Operational current limitation	650 mA max. @ diode with Uo = 2,5 V 200 mA max. @ diode with Uo = 6 V 2000 mA @ TEC	
Operational voltage	2-6 V	
Operation mode	CW Internal modulation (1 kHz) External modulation (max. 10 kHz)	
Power control	Preset 3 buttons – 100%, 50%, 10% SW control	
Supported packages	BTF, DIL, TOSA, H8, coaxial, etc.	

Optical

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

Valid for both product versions.



GET IN TOUCH WITH US

and we will recommend you the most suitable solution for your project.

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20+ YEARS