SAFIBRA

Solutions, When the Conventional Ones Run Out of Breath

OFLS-MULTI

MULTICHANNEL LIGHT SOURCE

Fully custom made light to fit your needs

The multichannel optical fiber source, OFLS-MULTI, is a completely custom-made laser source tailored to customer's needs. It ensures uniform light distribution over the output fiber matrix, which can count up to several hundreds of optical fiber outputs.

Uniform distribution

The used optic is designed to produce a non-Gaussian shape of the radiation intensity profile for uniform illumination of the fibers.

Fiber splitter

The launching of light into the output fibers is carried out through the special optical beam splitter - fiber bundle.

Fiber bundle

The optical fibers are organized in an orderly oriented matrix of square shape and size of 14x14. Totally 196 illuminated fibers.

PRODUCT VERSIONS

We are ready to help our customers when they are unable to find suitable ready-made solutions on the market. The OFLS-MULTI is a fully custom-made light source. The indicated parameters can be fitted to any customer's applications and needs. Inspire yourself by our unique product and let us know what you are looking for.

KEY PRODUCT FEATURES & BENEFITS

Removable optic holder

Optical distribution body includes a removable optic holder to accommodate attenuation filters or any 1" optics. The holder is accessible after removing the top cover.

Various wavelengths available

The multichannel light source can be equipped with any laser diode in terms of wavelength and output power.

Pulsed operation

The source is operated in pulse modulation mode with excitation by electrical impulses from an external source. Continuous operation is also possible.

Output position

Each output fiber is numbered. Each number indicates a unique fiber position for easy identification of fiber location within a fiber bundle.

Protection

The source is equipped by a protection circuit against overvoltage, reverse supply voltage and static electricity.

Power variation

The maximal power variation uniformity is less than 0,8 dB over all output optical fibers, but typically much better.

PRODUCT APPLICATIONS

MEASUREMENT AND TESTING
Laboratory, calibration and optical components

RESEARCH AND DEVELOPMENT
Novel and undiscovered applications

TECHNICAL SPECIFICATION

General and Electrical

Dimensions	350 x 80 x 75 mm
Modulation connector	LEMO/CAMAC
Operational temperature	25 °C recommended

Source Laser

Laser diode	Pigtailed MMF fiber 62.5 um
Central wavelength	445 nm
Spectral half width (FWHM)	2.0 nm
Optical power	50 mW max.
Modulation signal input	Up to 10 V peak, input impedance 50 Ohms
Operation	Pulse
Pulse length	10 - 15 ns
Frequency	1 Hz - 1 kHz

Fiber Bundle

Optical fiber type	50/125 um MMF step index, all silica fiber, 445 nm optimized
Fiber NA	0,22
Number of outputs	196 fibers
Matrix format	Square 14x14
Uniformity	≤ 0,8dB max, 0,6 dB typ.
Output fiber length	2 m
Fiber termination	LC-type optical connectors

All parameters can be customized.

GET IN TOUCH WITH US

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

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20+ YEARS