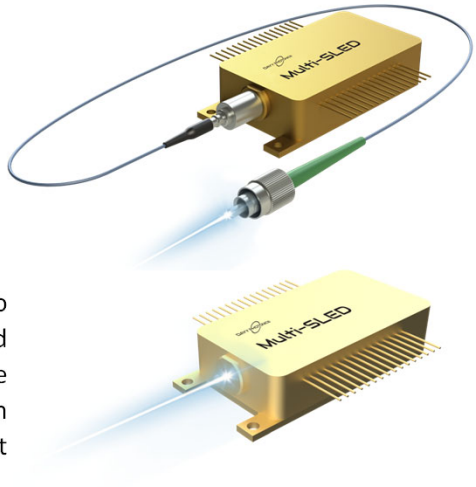
DAYY PHOTONICS

Your Photonic Light Source Company

Multi-Channel Superluminescent Diode Light Source (Multi-SLED) Optical Spectral Engine (OSE2)

DAYY's Multi-SLED® (superluminescent diode) OSE2 is a compact broadband light source that operates in the near-infrared region. The product itself is a 32-pin butterfly package that uses a set of superluminescent diodes, one monitor diode for each SLED (enabling better power control and monitoring capabilities), a thermoelectric cooler (TEC), an integrated isolator, and a spectral stitching design to provide overlapping spectral coverage. The Multi-SLED can be configured with up to six light sources.



The OSE2 includes various spectral coverages with SLED's ranging from 770nm to 1680nm, with up to 40mW of optical power. This product enables stable power and center-wavelength performance over time, and steady optical performance over a wide spectrum of wavelengths. The OSE2 is compact and easy to use, making it an appropriate fit for many different types of manufactured assemblies requiring light power.

The Multi-SLED uses DAYY's technology of spectral stitching to provide extensive spectral coverage. This technology intergrates multiple wavelengths into a single spatially coherent beam with low temporal coherence and broad spectral coverage. The Multi-SLED product lines can be spectrally tailored to suit specific application needs. This provides exceptional flexibility and usability, making these sources ideal for the applications included below:

KEY FEATURES

- Between two and six superluminescent diodes (SLEDs) in a single unit
- All SLEDs can be run from 0-100% of maximum rating
- Fiber-coupled output power from 10mW to 40mW, Free Space output power from 30mW to 130mW
- Bandwidth FWHM from 40nm to 460nm
- SLED's ranging from 770nm to 1680nm
- DAYY's technology for spectral stitching provides optimum power and bandwidth
- Each SLED comes with a built-in independent monitor photodiode and one common thermoelectric cooler (TEC) for all SLEDs
- Light output: FC/APC Connector (Optional FC/PC or SMA)

APPLICATIONS

- Optical Component Testing
- Telecom Test Equipment
- Medical Optical Coherence Tomography
- Industrial Optical Coherence Tomography
- Industrial and Biomedical Imaging Systems
- Optical Sensing
- Test and Measurement
- Research and Development

LIGHT TYPE ORDERING OPTION

- Free Space: for applications that do not require fiber optic coupling, higher-power free space models are available. Free space models will deliver a collimated beam out of the unit. Refer to ordering code free space section for output powers available.

RoHS Pb FREE

REACH COMPLIANT

Fibre-Coupled Products

INVISIBLE LASER RADIATION
DO NOT VIEW DIRECTLY
WITH OPTICAL INSTRUMENTS
CLASS 1M LASER PRODUCT

Free-Space Products

INVISIBLE LASER RADIATION
Avoid exposure to beam
CLASS 3b LASER PRODUCT

PRISM AWARDS FINALIST

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DAYY Photonics Corporation, 210-1111 57 Avenue NE, Calgary, Canada, T2E 9B2
sales@dayyphotonics.com, +1 (403) 400-2438, www.dayyphotonics.com