BDL, BFP, MDL

Diode laser modules

Features

808, 980, 1064, 532 nm

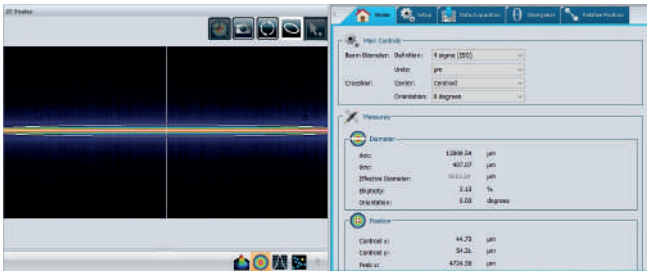
up to 200 W CW or 400 W QCW

200 to 600 µm fiber coupling

Multi-wavelength modules

SMA 905 or free space propagation

Custom Mil-spec solutions



Applications

Medical

Physiotherapy

Material processing

Illumination

Profilometry

Railway monitoring

Defence

BrightSolutions

SOLUZIONI LASER INNOVATIVE

BDL, BFP, MDL

Diode laser modules

BDL and BFP / MDL diode laser modules are based on diode arrays and multi-single emitter design respectively and they can be configured for offering a wide range of available wavelengths and power levels. They can operate both in CW mode and in pulsed mode.

The integrated optical design, accurate test and selection of high quality semiconductor materials and efficient thermal management make these devices the ideal choice for applications requiring reliability, long lifetime and simple conductive cooling in a small footprint.

BDL packages are coupled to standard SMA patch cables; custom pig tailing or free space collimated output are also available.

BFP modules are particularly suited for pumping applications, ensuring very long lifetime, low current operation and the highest brightness in a miniaturized package; they can be coupled to standard optical connectors and can include a variety of accessories from aiming beam to integrated controllers, aimed to medical, industrial, scientific and aerospace direct applications.
Customized Mil spec models can be designed, manufactured and qualified.
Multi-wavelength solutions (MDL) are well suited for a variety of medical applications; up to four different wavelengths can be available in one module. Models with free-space collimated or line-shaped output are also available.

	BDL - BFP - MDL models		
	BDL	BFP	MDL
Available Wavelengths	808 - 870 - 940 - 976 - 980 - 520 nm	808 - 870 - 976 - 1064 - 532 - 520 nm	808 - 870 - 976 - 980 - 1064 - 520 nm
Multi-wavelength configurable	NO	NO	YES
Max Output power	200 W	35 W	35 W
Pulsed operation mode	YES		
Fiber coupling	200 to 600 µm		
Fiber NA	0.22		
Output connector	SMA 905 (option: free space propagation)		
Built-in thermisotor	NTC - 10 kOhm - 25 °C		
Cooling	Conductive cooling (option: water cooling)	Conductive cooling	
Operating temperature	15 to 35 °C		

OPTIONS AVAILABLE :

Custom beam delivery optics
Red aiming beam
Monitoring photodiode
TE coolers
Diode current drivers
Diode temperature controllers
Optional extended temperature range

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