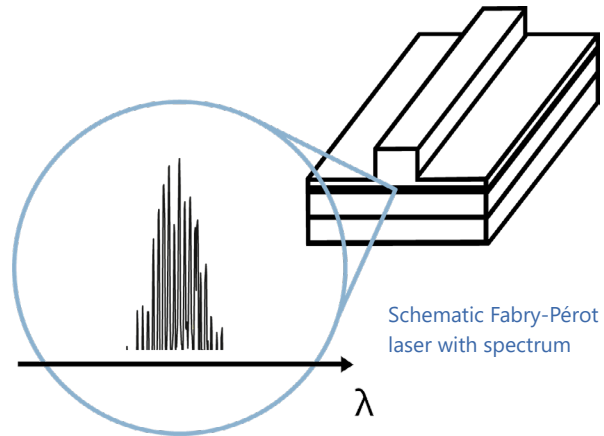


Fabry-Pérot Laser Diodes (FP): High-Power Option



Key features:

- HIGH-POWER
- BROADBAND
- SMALL FOOTPRINT



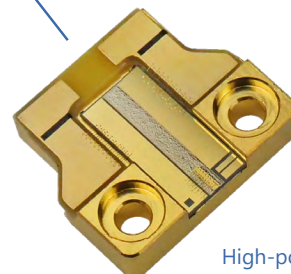
Schematic Fabry-Pérot laser with spectrum

Any **custom wavelength** is possible: You tell us what you need! With our outstanding technology we design any wavelength **between 1950 nm and 2350 nm** with an accuracy of +/- 20 nm. Other wavelengths are available on request.

The **output power** of **up to 1 W** yields a strong signal and gives large flexibility to your application. High power up to 1 W for diverse applications is available on request.

Long-term stability is one of the principal features customers value about our lasers! Even in **harsh environments** nanoplus devices perform excellently – low maintenance warranted.

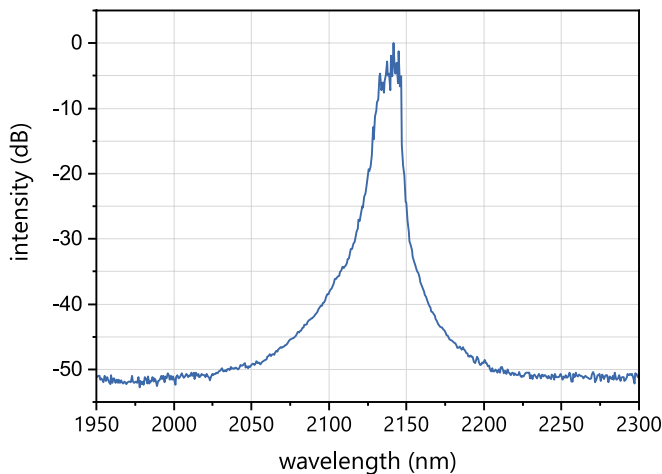
“Do not change your ideas, let us deliver a laser that fits your application.”



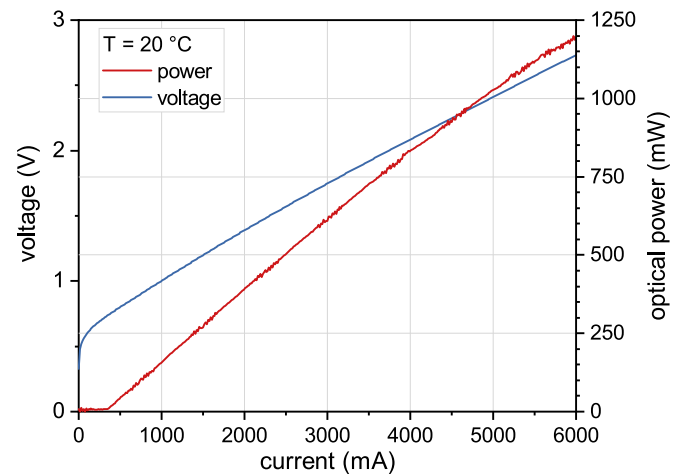
High-power Fabry-Pérot laser on submount with AlN carrier

Typical Specifications: High-Power Option

This data sheet reports performance data of a **sample High-Power Fabry Pérot Laser at 2145 nm**, which is representative for all wavelengths between 1950 nm and 2350 nm with **high-power option**.



Typical room temperature cw spectrum of a HPFP laser at 2145 nm



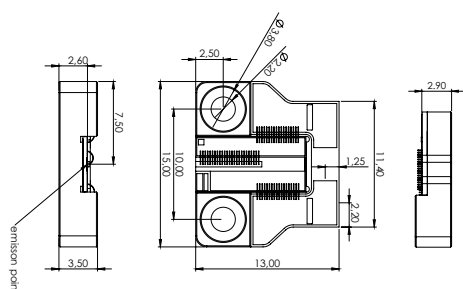
Typical PI and VI curve of a HPFP laser at 2145 nm

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm	-20	please specify	+20
optical output power (at λ_{op})	P_{op}	mW		1000	
operating current	I_{op}	mA		5000	
operating voltage	V_{op}	V		2.5	
threshold current	I_{th}	mA		300	
operating case temperature*	T_c	°C	-20	+25	+50
storage temperature*	T_s	°C	-40	+20	+80

* non condensing

laser packaging options

submount with AlN carrier, without TEC, without NTC



Technical drawing of submount with AlN carrier

