WAVELENGTH

760-840 nm

840-1100 nm

1100-1700 nm

1700-2400 nm

2400-2900 nm

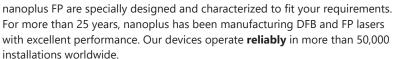
2800-6500 nm

6000-14000 nm

High-Power OPT

Fabry-Pérot Laser Diodes

(FP): High-Power Option



Schematic Fabry-Pérot laser with spectrum

Key features:

- BROADBAND
- HIGH-POWER
- SMALL FOOTPRINT

Any **custom wavelength** is possible: You tell us what you need! With our outstanding technology we design any wavelength **between 760 nm and 14000 nm** with an accuracy of +/- 20 nm.

The **output power** of **several mW** yields a strong signal and gives large flexibility to your application. **High power up to 1 W** is available on request **between 1950 nm and 2350 nm**.

We offer **various packaging options**, e. g. several free space housings including TEC and NTC, fiber coupling, **collimation** and **custom designs**. What are your requirements?

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."

If you require **custom specifications**, please contact us. Nearly 80 % of our devices are more or less customerspecific. As nanoplus is a **fully vertically integrated company**, we control the entire process chain from design to packaging. Both nanoplus production facilities are based in **Germany**. To guarantee consistent product quality we apply a strict and **ISO certified quality management system** at all levels.

Our sales and R&D teams have long-standing experience in developing lasers. They will be pleased to provide advice at any time - rely on us from design stage to product realization as well as after-sales:

We make market leaders!









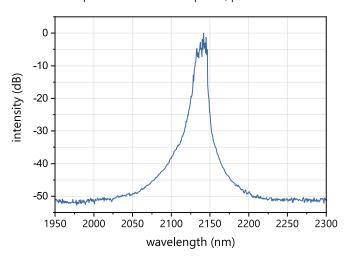
nanoplus high-power Fabry-Pérot laser on submount with AIN carrier

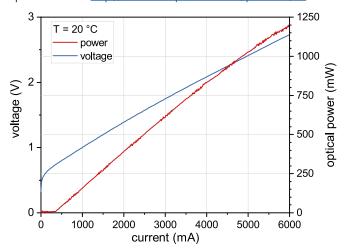
Typical Specifications: High-Power Option



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**.

For standard specifications with less power, please refer to our standard power section: http://www.nanoplus-usa.com/products/FP.





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

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

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at $T_{op'}$ I_{op})	$\lambda_{_{\text{op}}}$	nm	-20	please specify	+20
optical output power (at $\lambda_{\rm op}$)	P_{op}	mW		1000	
operating current	l _{op}	mA		5000	
operating voltage	V_{op}	V		2.5	
threshold current	I_{th}	mA		300	
operating chip temperature	T _{op}	°C	+15	+20	+40
storage temperature*	T_s	°C	-40	+20	+80

* non condensing

laser packaging options

submount with AIN carrier, without TEC, without NTC

Technical drawings & accessories are available at: https://www.nanoplus-usa.com/products/packaging