

Fabry-Pérot Laser Diodes

(FP): High-Power Option

nanoplus Fabry-Pérot Lasers (FP) are specially designed and characterized to fit your requirements. For 25 years, nanoplus has been manufacturing DFB and FP lasers with excellent performance. Our devices operate reliably in more than 50,000 installations

worldwide.

WAVELENGTH

760-840 nm

840-1100 nm

1100-1700 nm

1700-2400 nm

2400-2900 nm

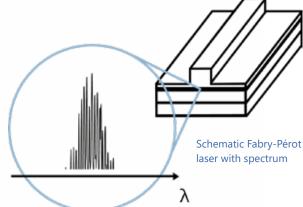
2800-6500 nm

6000-14000 nm

High-Power OPT

Key features:

- HIGH-POWER
- **BROADBAND**
- **SMALL FOOTPRINT**



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.

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 the laser that fits your application."

If you require **custom specifications**, please contact us. Nearly 80 % of our devices are more or less customer-specific.

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 advise you in your design and realization phase as well as after-sales:

We make market leaders!













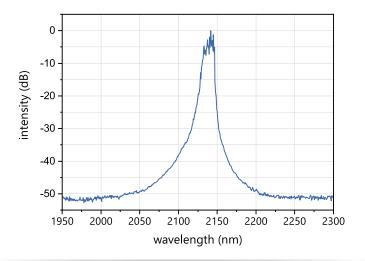
submount with AIN carrier

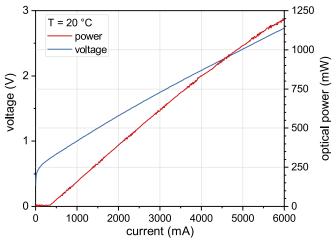


Typical Specifications: High-Power Option

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 low power section: nanoplus.com/FP/1700nm-2400nm.





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

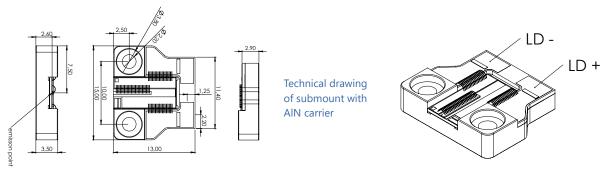
electro-optical characteristics	symbol	unit	min.	typical	max.
operating wavelength (at $T_{op'}$ I_{op})	$\lambda_{_{op}}$	nm	-20	please specify	+20
optical output power (at λ_{op})	P_{op}	mW		1000	
operating current	l _{op}	mA		5000	
operating voltage	V_{op}	V		2.5	
threshold current	l _{th}	mA		300	
operating chip temperature*	T_{c}	°C	+15	+20	+40
storage temperature*	T_s	°C	-40	+20	+80

^{*} non condensing

packaging

submount with AIN carrier, without TEC, without NTC

Technical drawings & accessories are available at: nanoplus.com/packaging



Please contact <u>sales@nanoplus.com</u> for customized specifications, quotes and further questions. Visit our website for technical notes, application samples or literature referrals.