

# Fabry-Pérot Lasers (FP)

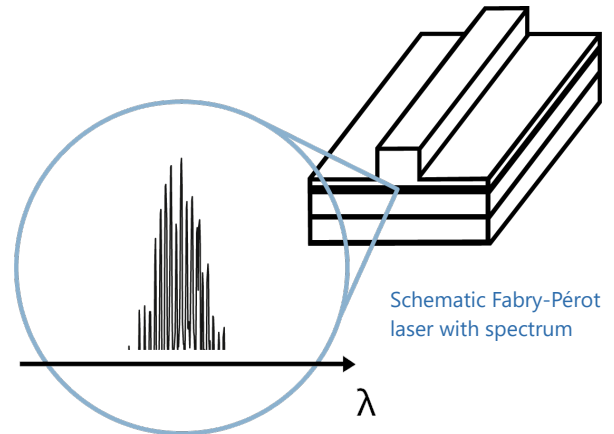
## WAVELENGTH

760–840 nm  
840–1100 nm  
1100–1700 nm  
1700–2400 nm  
2400–2900 nm  
2800–6500 nm  
6000–14000 nm  
High-Power OPT

nanoplus FPs are specially designed and characterized to fit your requirements. For more than 20 years, nanoplus has been manufacturing DFB and FP lasers with excellent performance. Our devices operate **reliably** in more than 50,000 installations worldwide.

## Key features:

- BROADBAND
- HIGH-POWER
- 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 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 the laser that fits your application.”**

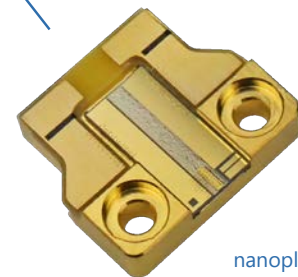
If you require **custom specifications**, please contact us. Nearly 80 % of our devices are more or less customer-specific.

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 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!**

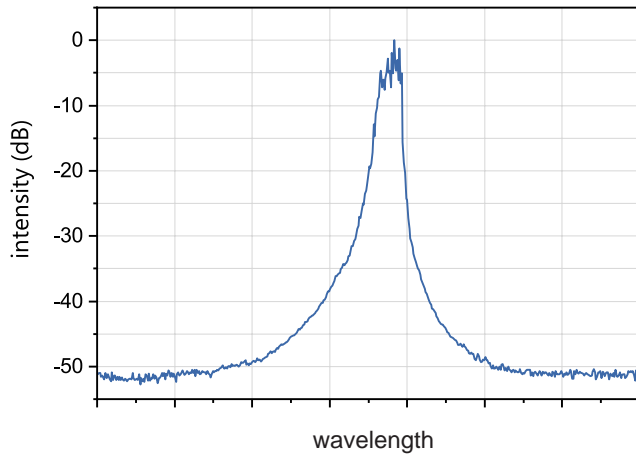


nanoplus high-power Fabry-Pérot laser on submount with AlN carrier

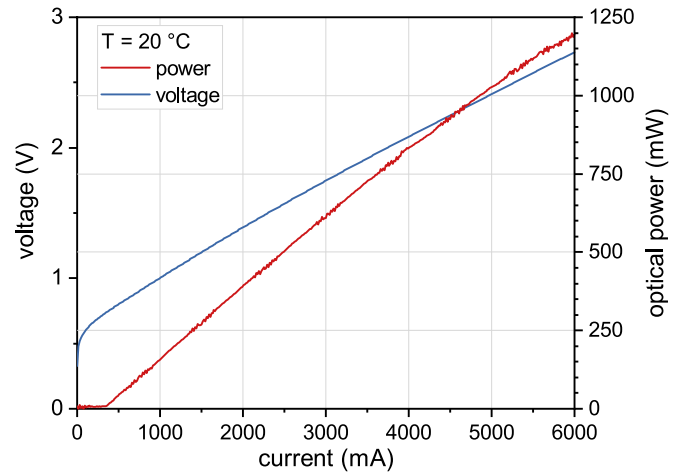


# Typical Specifications: Fabry-Pérot Lasers

This data sheet reports typical performance data of **nanoplus Fabry-Pérot Lasers**. Please select your wavelength range below for further specifications.



Typical room temperature cw spectrum of a nanoplus Fabry-Pérot Laser



Typical PI and VI curve of a nanoplus Fabry-Pérot Laser

The table below outlines major specifications of our Fabry-Pérot Lasers.

Detailed specifications and packaging options are available on our website at <https://nanoplus.com/products/fabry-perot-laser>.

Define your center wavelength to +/- 20 nm	optical output power $P_{op}$ (mW)*	operating current $I_{op}$ (mA)*	threshold current $I_{th}$ (mA)*
760 - 840 nm	10	30	50
840 - 1100 nm	35	70	50
1100 - 1700 nm	10	45	50
1700 - 2400 nm	10	120	45
2400 - 2900 nm	5	100	50
2800 - 6500 nm	5	100	50
High-Power Option 1950 - 2350 nm	1000	5000	300

\*typical values

