

Fabry-Pérot Laser Diodes (FP): 1700 nm - 2400 nm

WAVELENGTH

760–840 nm

840–1100 nm

1100–1700 nm

1700–2400 nm

2400–2900 nm

2800–6500 nm

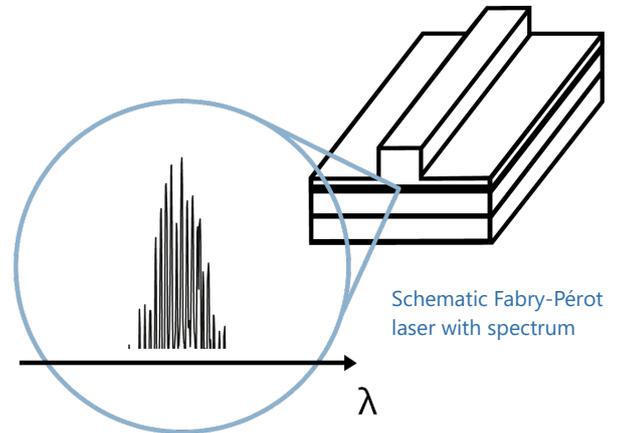
6000–14000 nm

High-Power OPT

nanoplus 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.

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 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!



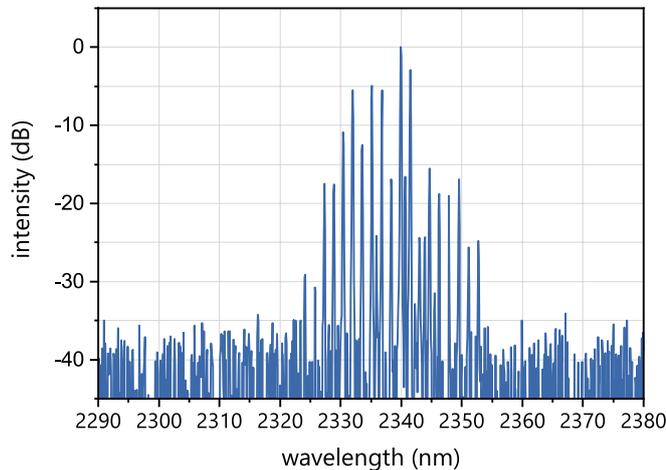
TO5 with cap and AR coated window



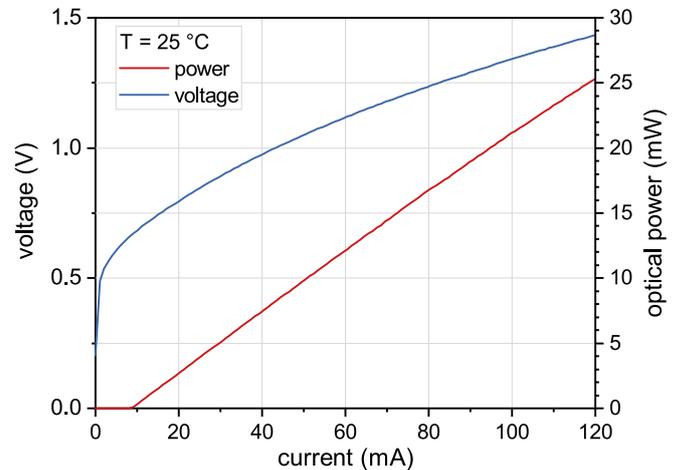
Typical Specifications: 1700 nm - 2400 nm

This data sheet reports performance data of a **sample Fabry-Pérot laser at 2330 nm**, which is representative for the entire wavelength range.

If you need more power, please check our **High-Power Option**: nanoplus.com/FP/1950nm-2350nm



Typical room temperature cw spectrum
of a nanoplus FP laser at 2330 nm



Typical PI and VI curve
of a nanoplus FP laser at 2330 nm

| electro-optical characteristics | symbol | unit | min. | typical | max. |
|--|----------------|------|------|----------------|------|
| operating wavelength (at T_{op} , I_{op}) | λ_{op} | nm | -20 | please specify | +20 |
| optical output power (at λ_{op}) | P_{op} | mW | | 10 | |
| operating current | I_{op} | mA | | 120 | |
| operating voltage | V_{op} | V | | 2 | |
| threshold current | I_{th} | mA | | 45 | |
| operating chip temperature | T_{op} | °C | +20 | +25 | +50 |
| operating case temperature* | T_c | °C | -20 | +25 | +50 |
| storage temperature* | T_s | °C | -40 | +20 | +80 |

* non condensing

packaging

TO5 with TEC and NTC, black cap, AR coated window

TO56 without TEC or NTC, sealed, window

c-mount or other submounts without TEC or NTC

butterfly package with TEC and NTC, SM fiber, FC/APC connector; up to 2360 nm

chip on carrier without TEC, with NTC

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

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