

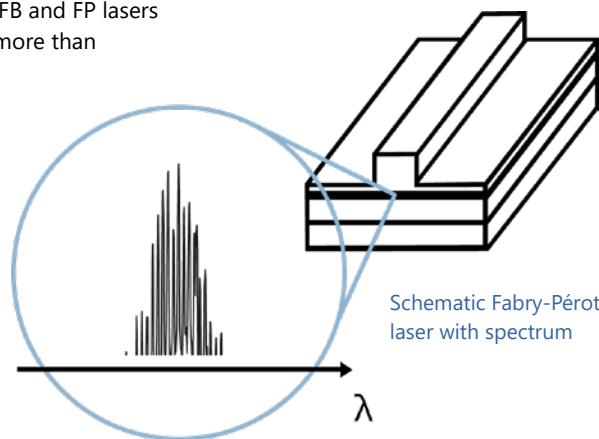
Fabry-Pérot Laser Diodes

(FP): 840 nm - 1100 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 FP are specially designed and characterized to fit your requirements. For more than 25 years, nanoplus has been manufacturing DFB and FP lasers with excellent performance. Our devices operate **reliably** in more than 100,000 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 a laser that fits your application."

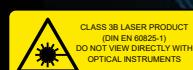
If you require **custom specifications**, please contact us. Nearly 80 % of our devices are more or less customer-specific. As nanoplus is a **fully vertically integrated company**, we control the entire process chain from design to packaging. Both nanoplus production facilities are based in **Germany**. 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!



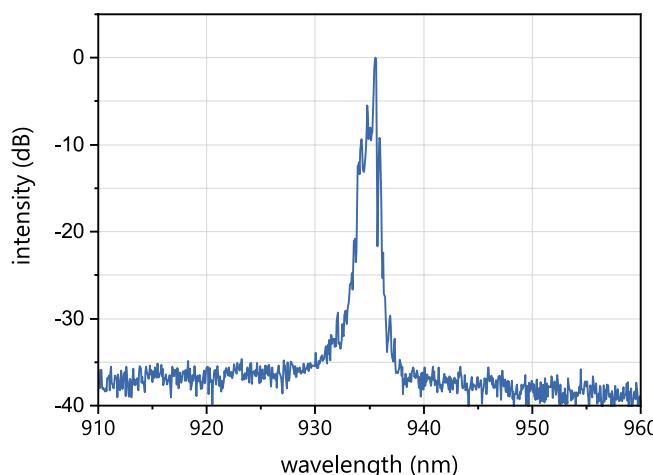
TO5 with cap and AR coated window



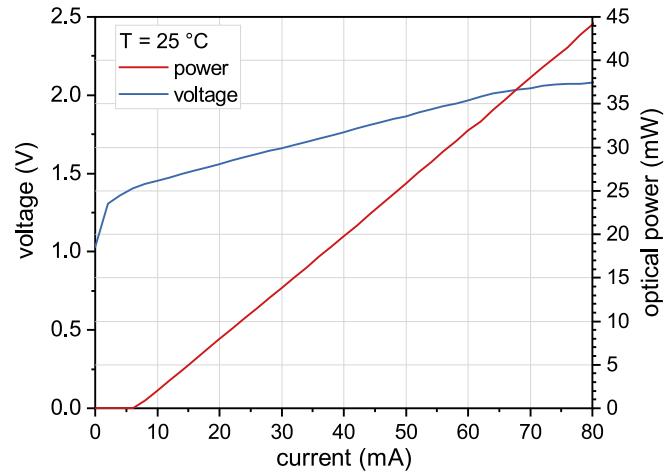
Typical Specifications: 840 nm - 1100 nm

This data sheet reports performance data of a **sample Fabry-Pérot laser at 935 nm**, which is representative for the entire wavelength range.

If you need more power, please check our **High-Power Option**: <http://www.nanoplus-usa.com/products/FP>



Typical room temperature cw spectrum of a nanoplus FP laser at 935 nm



Typical PI and VI curve of a nanoplus FP laser at 935 nm

| electro-optical characteristics | symbol | unit | min. | typ | max. |
|--|----------------|------|------|-----|------|
| operating wavelength (at T_{op} , I_{op}) | λ_{op} | nm | -20 | 935 | +20 |
| optical output power (at λ_{op}) | P_{op} | mW | | 35 | |
| operating current | I_{op} | mA | | 70 | |
| operating voltage | V_{op} | V | | 3 | |
| threshold current | I_{th} | mA | | 50 | |
| 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 |

laser packaging options

* non condensing

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

chip on carrier without TEC, with NTC

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

Please contact victor.perez@nanoplus.com for customized specifications, quotes and further questions.

Visit the [nanoplus website](#) for technical notes, application samples or literature referrals.

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