Fabry-Pérot Laser Diodes (FP): 2400 nm - 2900 nm

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 30,000 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 2900 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 for diverse applications is available on request.

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.

“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!”

“Do not change your ideas, let us deliver a laser that fits your application.”
**Typical Specifications:**

**2400 nm - 2900 nm**

This data sheet reports performance data of a sample Fabry-Pérot laser at **2700 nm**, which is representative for the entire wavelength range. If you need more power, please check our **High-Power Option**: [https://nanoplus.com/HPFP](https://nanoplus.com/HPFP)

![Typical room temperature cw spectrum of a nanoplus FP laser at 2700 nm](image1)

![Typical PI and VI curve of a nanoplus FP laser at 2700 nm](image2)

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<th>electro-optical characteristics</th>
<th>symbol</th>
<th>unit</th>
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<th>typ</th>
<th>max.</th>
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<td>operating wavelength (at $T_{op}$, $I_{op}$)</td>
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<td>optical output power (at $\lambda_{op}$)</td>
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<tr>
<td>operating current</td>
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<td>mA</td>
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<td>operating voltage</td>
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<tr>
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</table>

* non condensing

**laser packaging options**

**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**

**chip on carrier without TEC, with NTC**

Technical drawings & accessories are available at: [https://nanoplus.com/packaging-options](https://nanoplus.com/packaging-options)

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

Visit our website for technical notes, application samples or literature referrals.

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