Fabry-Pérot Laser Diodes (FP): 1100 nm - 1700 nm

WAVELENGTH

760–840 nm

840–1100 nm

1100–1700 nm

1700–2400 nm 2400–2900 nm

2800–6500 nm

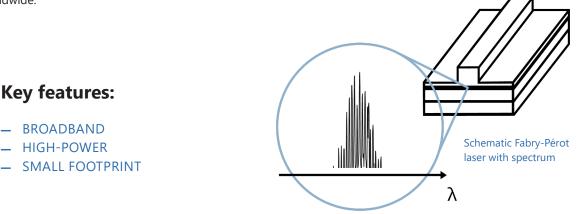
6000–14000 nm

High-Power OPT

ERED COL

ATTENTION

9001 14001 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.



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!



Nanosystems and Technologies GmbH

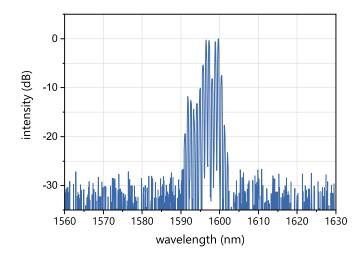
nanopus

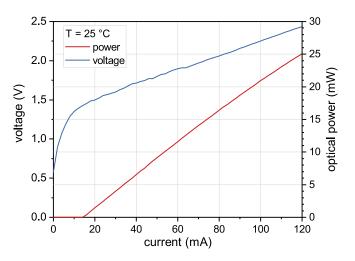
TO5 with cap and AR coated window

Typical Specifications: 1100 nm - 1700 nm

This data sheet reports performance data of a **sample Fabry-Pérot laser at 1590 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 1590 nm

Typical PI and VI curve of a nanoplus FP laser at 1590 nm

electro-optical characteristics	symbol	unit	min.	typical	max.
operating wavelength (at $T_{_{\mathrm{op}}}$, $I_{_{\mathrm{op}}}$)	$\lambda_{_{op}}$	nm	-20	please specify	+20
optical output power (at $\lambda_{_{op}}$)	P _{op}	mW		10	
operating current	I _{op}	mA		45	
operating voltage	V _{op}	V		2	
threshold current	l _{th}	mA		50	
operating chip temperature	T _{op}	°C	+20	+25	+50
operating case temperature*	T _c	°C	-20	+25	+50
storage temperature*	Τ _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 chip on carrier without TEC, with 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.

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