760 - 840 nm

840 - 1100 nm

1100 - 1700 nm

1700 - 2400 nm

2400 - 3000 nm

3000 - 6000 nm

nanoplus multi mode laser diodes

FP laser diodes

from 840 nm to

1100 nm

nanoplus is the only manufacturer worldwide routinely providing single and multi mode lasers at any wavelength from 760 to 6000 nm. At wavelengths up to 14 µm, QCLs complete nanoplus' laser portfolio. Our Fabry Perot laser diodes deliver multi mode emission with well defined optical properties enabling a wide range of applications including e.g. security measures and range finding. In conjunction with an external cavity they are ideally suited for all spectroscopic tasks where a wide wavelength tuning range and a narrow linewidth is required.

nanoplus lasers operate reliably in tens of thousands of installations worldwide, including chemical and metallurgical industries, gas pipelines, power plants, medical systems, airborne and satellite applications.

key features

- ✓ excellent reliability
- ✓ broad emission spectrum

laser packaging options

TO5 with TEC and NTC

TO5.6 header with or without cap

TO9 header with or without cap

wide variety of packaging options

✓ range finding

application areas

- ✓ security
- ✓ spectroscopy
- ✓ illumination

nanoplus FP lasers with excellent performance are specifically designed and characterized to fit your needs. This data sheet summarizes typical properties of nanoplus FP lasers in the wavelenth range from 840 nm to 1100 nm. In this wavelength range, e.g. H₂O and HBr can be detected with high sensitivity.

general ratings (T = 25 °C)	symbol	unit	typical
optical output power	P _{out}	mW	35
reverse Voltage	Vr	V	2
forward Current	l _f	mA	70

On request, lasers with specifically optimized properties, e.g. higher output power, are available.

For dimensions and accessories. please see www.nanoplus.com

Further packaging options available on request.

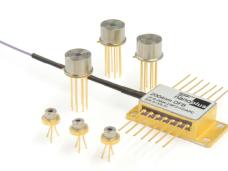
ISO 9001: 2809

nanoplus Nanosystems and Technologies GmbH Oberer Kirschberg 4 D-97218 Gerbrunn

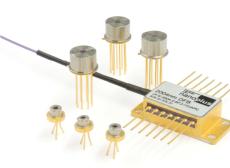
phone: +49 (0) 931 90827-0 fax: +49 (0) 931 90827-19 email: sales@nanoplus.com internet: www.nanoplus.com

butterfly housing with FC/APC fibre (available up to 2.33 μ m)

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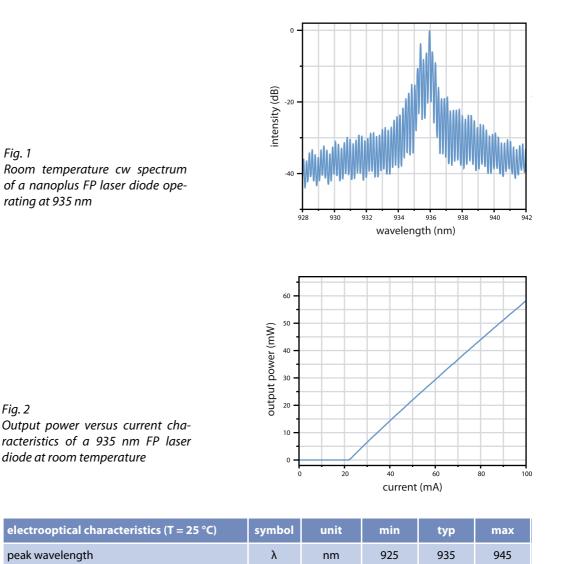


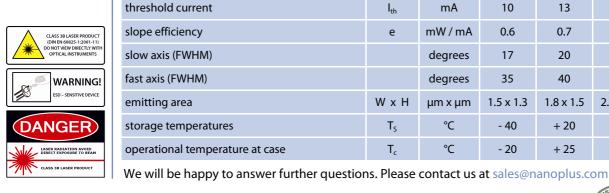
nanoplus

nanoplus FP laser diodes

nanoplus FP laser diodes in the range from 840 nm to 1100 nm are ideally suited for all spectroscopic tasks where a broad laser emssion spectrum and a short coherence length is required. The variety of applications for which these FP laser diodes are key elements include range finding systems, security measures and many more. In combination with external cavitity setups the laser diodes can be operated as sources for widely tunable external cavity lasers for ultra sensitive laser based gas sensing of e.g.. H₂0 or HBr.

For examples of performance data of nanoplus lasers in other wavelength ranges, please see www.nanoplus.com or contact sales@nanoplus.com





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mA

mW/mA

degrees

degrees

μm x μm °C

°C

 I_{th}

e

W×Η

Ts

T_c

10

0.6

17

35

1.5 x 1.3

- 40

- 20

13

0.7

20

40

1.8 x 1.5

+20

+ 25



16

0.8

25

45

2.0 x 1.6

+ 80

+50