TOP WAVELENGTH

- 760.8 nm
 1278.8 nm
 1392.0 nm
 1512.2 nm
 1560 1590 nm
 - 1651 & 1654 nm
- 1742.0 nm
- 1854 & 1877 nm
- 2004.0 nm
- 2330 & 2334 nm
- = 3240 & 3270 nm
- 3345 nm HP
- 3345 & 3375 nm
- 4524 & 4534 nm
- 4565 nm HP
- 5184 & 5263 nm

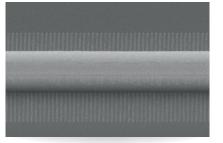


TOP Wavelengths DFB: 3240 nm & 3270 nm



Key features:

- MONOMODE
- CONTINUOUS WAVE
- ROOM TEMPERATURE
- MODE HOP FREE TUNING



Overgrowth-free DFB device processing

A **narrow linewidth below 3 MHz** guarantees ultra-precise scanning of the absorption line feature. The **high output power** of **several mW** yields a stronger signal and increases your measurement precision.

Fast and wide wavelength tuning is required for in situ systems. Most customers use a scan rate of 10 kHz and benefit from our very large tuning coefficient.

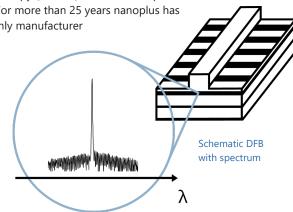
"Do not change your ideas, let us deliver a laser that fits your application."

We offer **various packaging options**, e.g. several free space housings including TEC and NTC, fiber coupling, **collimation** and **custom designs**. What do you require?

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, TO56 and fiber coupled butterfly package

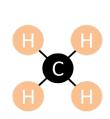




Any **custom wavelength** is possible: You tell us what you need and we deliver it. With our patented DFB technology we design any wavelength **between 760 nm and 14 μm**.

Our excellent **spectral purity** is characterized by a large side mode suppression ratio **(SMSR)** of > **35 dB**, giving your system a low signal to noise ratio against crossinterference.

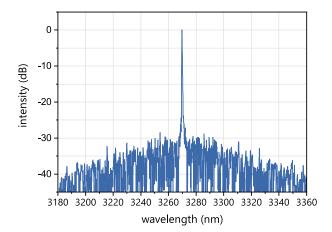
Superior Specifications: 3240 nm & 3270 nm



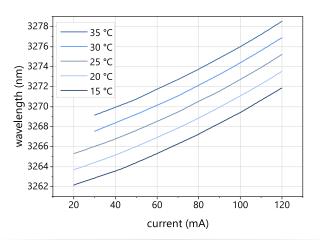


This data sheet reports performance data of a sample nanoplus DFB laser at 3270 nm with enhanced specifications.

They are equally valid for 3240 nm. Standard specifications are available at: http://nanoplus-usa.com/products/dfb-laser. These lasers are particularly suitable for methane (CH₄) detection.



Typical room temperature cw spectrum of a nanoplus DFB laser at 3270 nm



Typical mode hop free tuning of a nanoplus DFB laser at 3270 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at $T_{_{\rm op'}}$ $I_{_{\rm op}}$)	$\lambda_{_{op}}$	nm		3270	
optical output power (at $\lambda_{_{op}})$	P_{op}	mW		15	
operating current	l _{op}	mA			120
operating voltage	V _{op}	V		5	
threshold current	I _{th}	mA	15	25	40
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C,	nm / mA		0.10	
temperature tuning coefficient	C _T	nm / K		0.35	
operating chip temperature	T _{op}	°C	+15	+20	+40
operating case temperature*	T _c	°C	-20	+25	+55
storage temperature*	Τ _s	°C	-30	+20	+70

* non-condensing

laser packaging options

TO66 with TEC and NTC, black cap, AR coated window

Other packaging options may be discussed on request.

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.

nanoplus America Inc., nanoplus-usa.com, phone: +1-720-453-2454, email: victor.perez@nanoplus.com © copyright nanoplus America Inc. 2024, all rights reserved. Technical data is subject to change without notice.