

**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 & 3375 nm

4524 & 4534 nm

5184 & 5263 nm

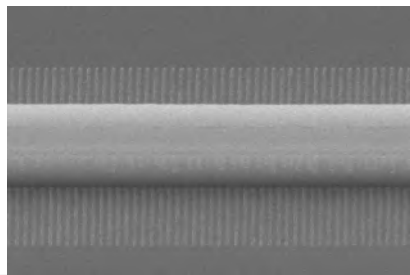
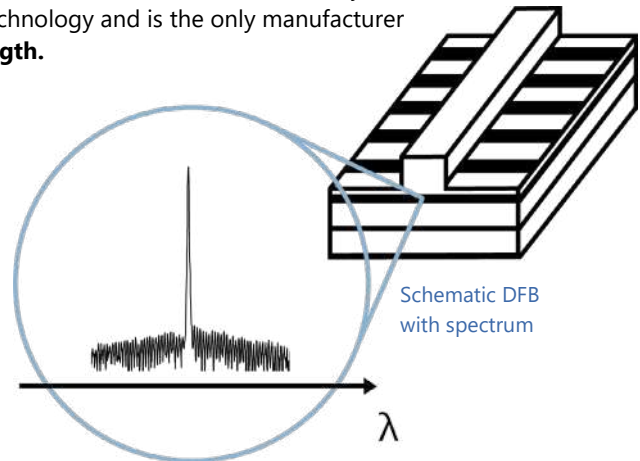
TOP Wavelengths

DFB: 760.8 nm

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Key features:

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



Overgrowth-free DFB device processing

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 μ m**.

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.

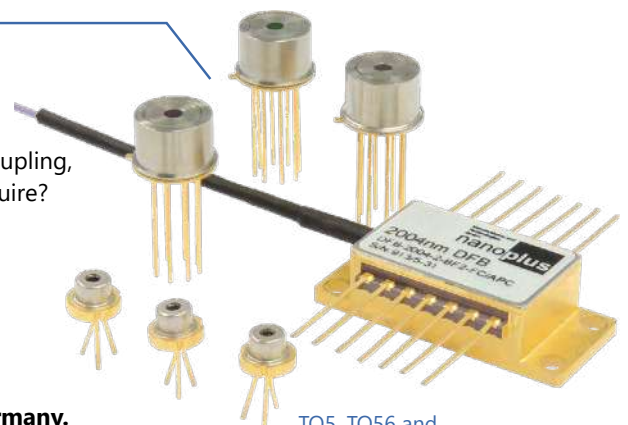
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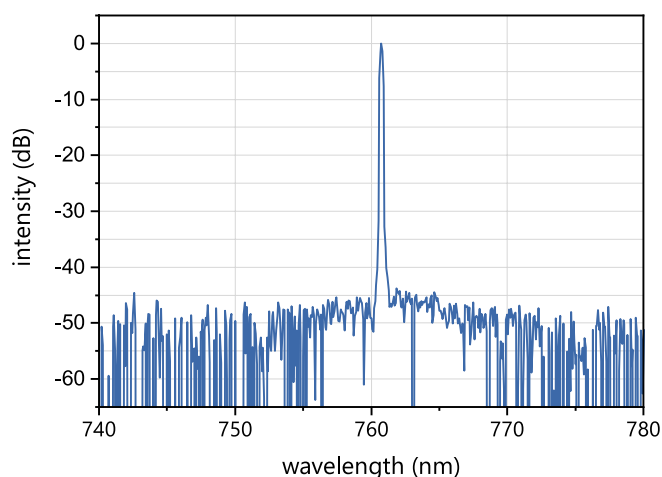
TO5, TO56 and
fiber coupled
butterfly package

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We make market leaders!

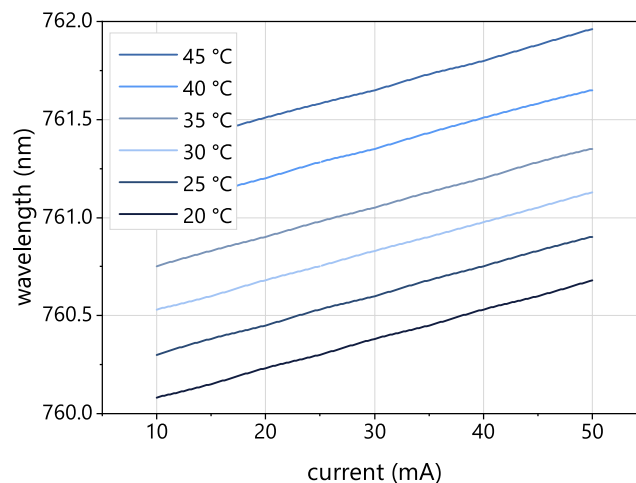


Superior Specifications: 760.8 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 760.8 nm with enhanced specifications**. Standard specifications are available at: <https://nanoplus.com/DFB/760-830-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB laser at 760.8 nm



Typical mode hop free tuning of a nanoplus
DFB laser at 760.8 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		760.8	
optical output power (at λ_{op})	P_{op}	mW		6	
operating current	I_{op}	mA		30	
operating voltage	V_{op}	V		3	
threshold current	I_{th}	mA	5	10	18
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C_I	nm / mA	0.010	0.018	0.025
temperature tuning coefficient	C_T	nm / K	0.045	0.054	0.060
operating chip temperature	T_{op}	°C	+20	+25	+40
operating case temperature*	T_c	°C	-20	+25	+55
storage temperature*	T_s	°C	-40	+20	+80

* non-condensing

laser packaging options

TO5 with TEC and NTC, black cap, AR coated window

TO56 without TEC or NTC, sealed, window

c-mount 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://nanoplus.com/packaging-options>

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

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TOP Wavelengths

DFB: 1278.8 nm

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

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2330 & 2334 nm

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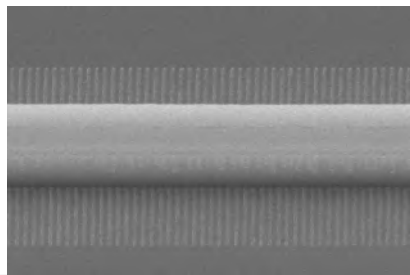
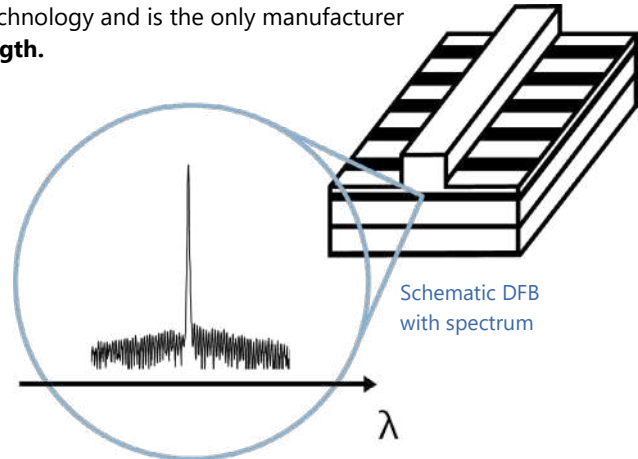
4524 & 4534 nm

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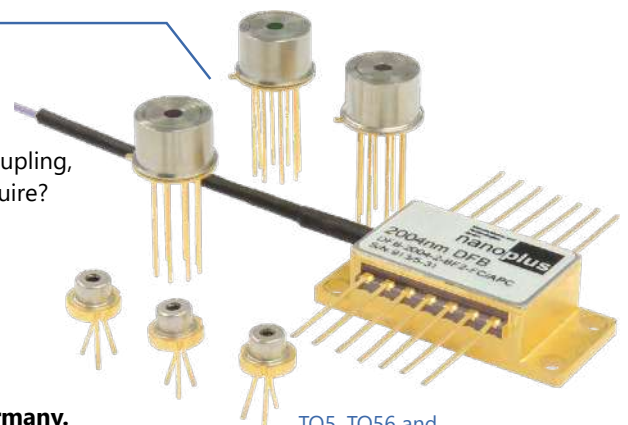
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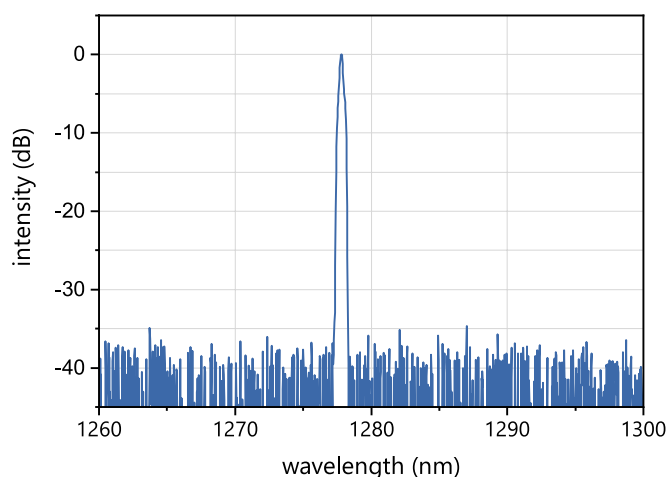
TO5, TO56 and
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butterfly package

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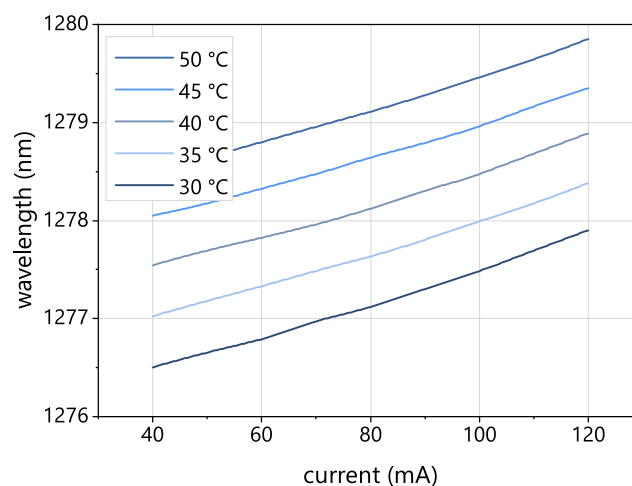


Superior Specifications: 1278.8 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 1278.8 nm with enhanced specifications**. Standard specifications are available at: <https://nanoplus.com/DFB/1100-1300-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB laser at 1278.8 nm



Typical mode hop free tuning of a nanoplus
DFB laser at 1278.8 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		1278.8	
optical output power (at λ_{op})	P_{op}	mW		20	
operating current	I_{op}	mA		70	
operating voltage	V_{op}	V		2	
threshold current	I_{th}	mA	12	15	25
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C_I	nm / mA	0.007	0.01	0.02
temperature tuning coefficient	C_T	nm / K	0.07	0.09	0.1
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

* non-condensing

laser packaging options

TO5 with TEC and NTC, black cap, AR coated window

TO56 without TEC or NTC, sealed, window

c-mount without TEC or NTC

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chip on carrier without TEC, with NTC

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TOP Wavelengths

DFB: 1392.0 nm

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

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2330 & 2334 nm

3240 & 3270 nm

3345 & 3375 nm

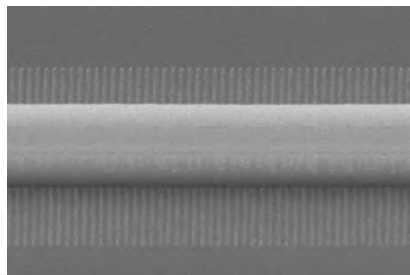
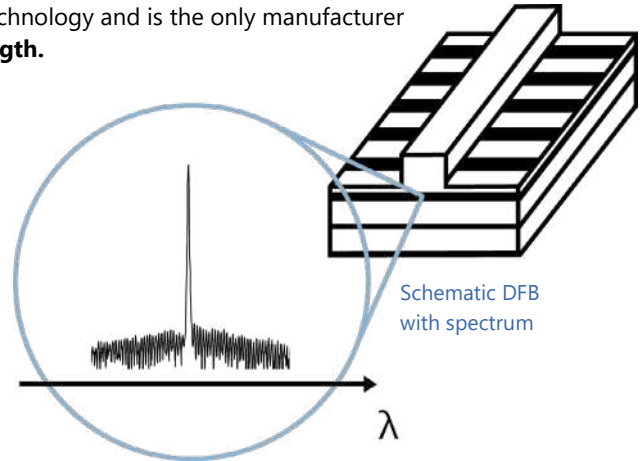
4524 & 4534 nm

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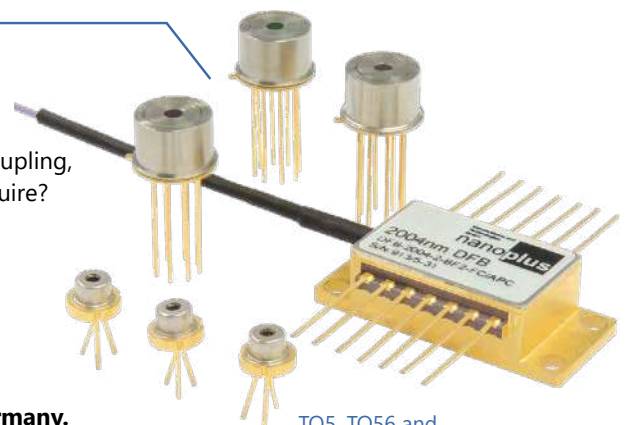
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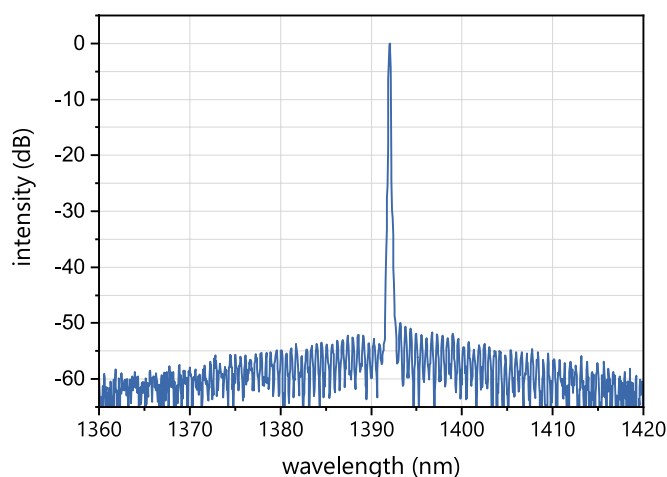
TO5, TO56 and
fiber coupled
butterfly package

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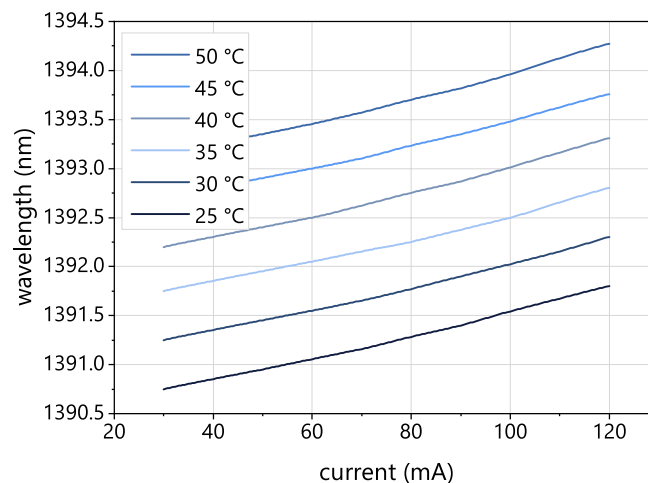


Superior Specifications: 1392.0 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 1392.0 nm with enhanced specifications**. Standard specifications are available at: <https://nanoplus.com/DFB/1300-1650-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB laser at 1392.0 nm



Typical mode hop free tuning of a nanoplus
DFB laser at 1392.0 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		1392.0	
optical output power (at λ_{op})	P_{op}	mW		8	
operating current	I_{op}	mA		70	
operating voltage	V_{op}	V		2	
threshold current	I_{th}	mA	10	25	30
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C_I	nm / mA	0.01	0.02	0.03
temperature tuning coefficient	C_T	nm / K	0.07	0.10	0.14
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

* non-condensing

laser packaging options

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c-mount without TEC or NTC

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TOP Wavelengths

DFB: 1512.2 nm

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 & 3375 nm

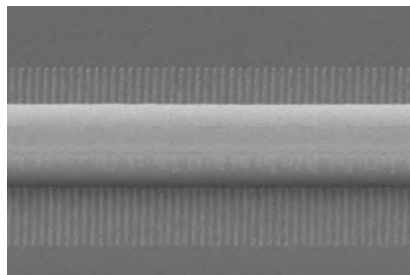
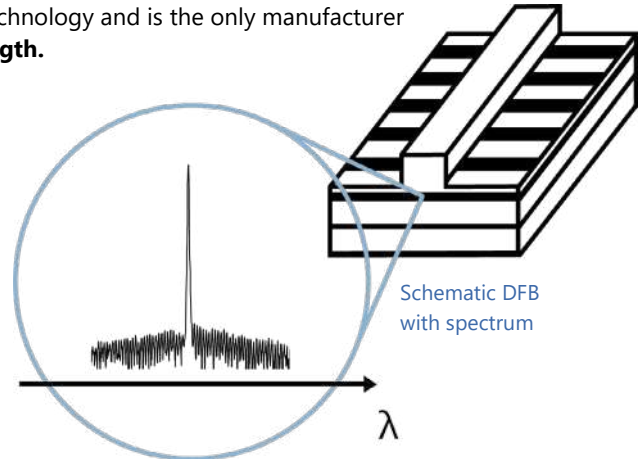
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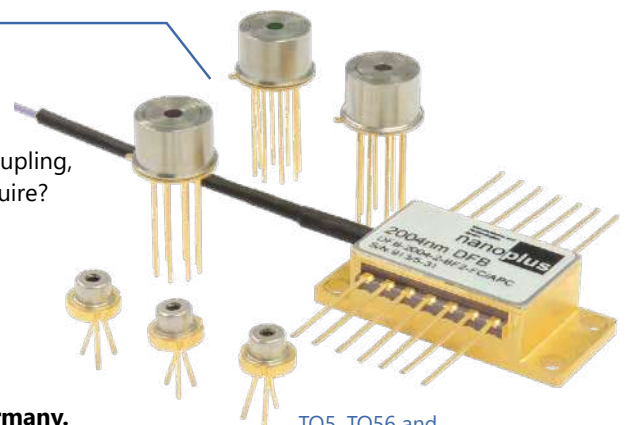
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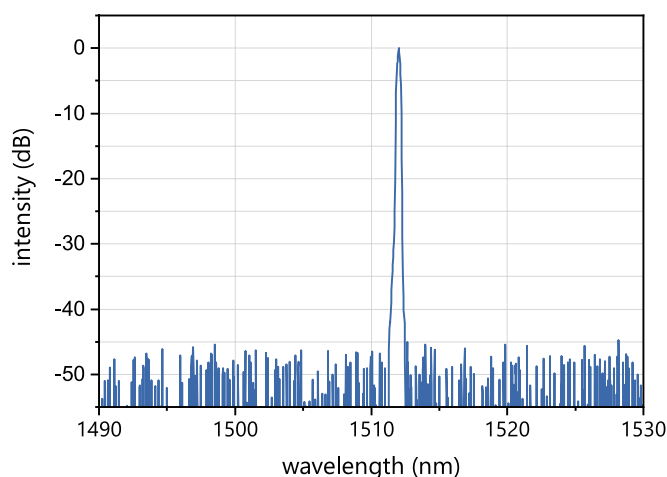
TO5, TO56 and
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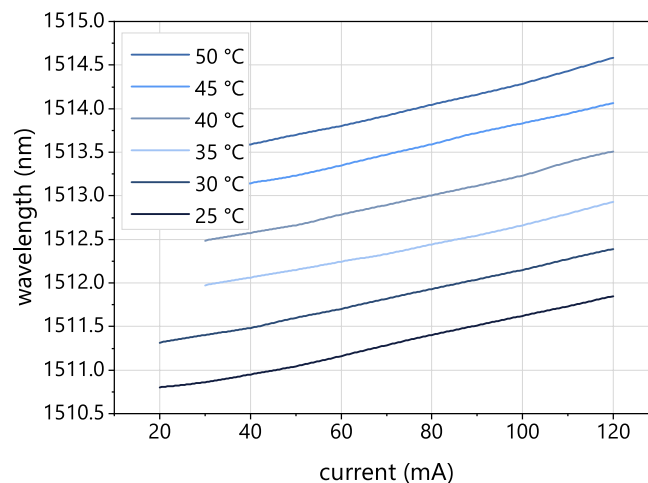


Superior Specifications: 1512.2 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 1512.2 nm with enhanced specifications**. Standard specifications are available at: <https://nanoplus.com/DFB/1300-1650-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB laser at 1512.2 nm



Typical mode hop free tuning of a nanoplus
DFB laser at 1512.2 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		1512.2	
optical output power (at λ_{op})	P_{op}	mW		8	
operating current	I_{op}	mA		70	
operating voltage	V_{op}	V		2	
threshold current	I_{th}	mA	10	25	30
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C_I	nm / mA	0.008	0.015	0.02
temperature tuning coefficient	C_T	nm / K	0.07	0.10	0.14
operating chip temperature	T_{op}	°C	+20	+25	+50
operating case temperature*	T_c	°C	-20	+25	+50
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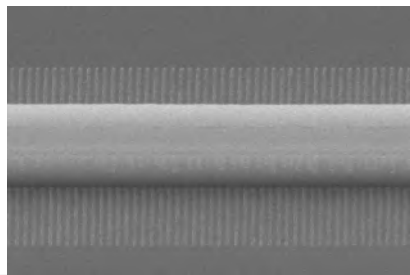
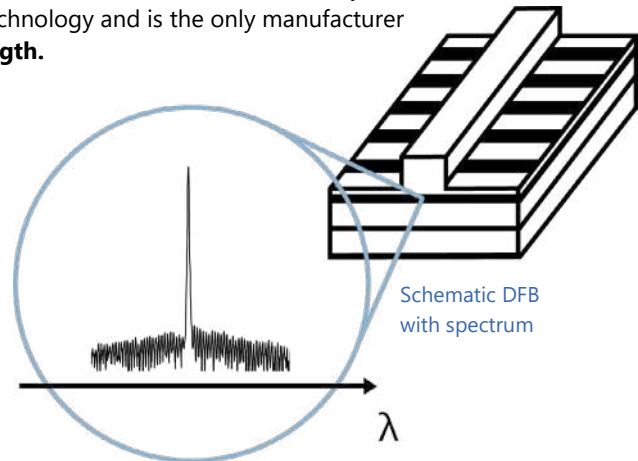
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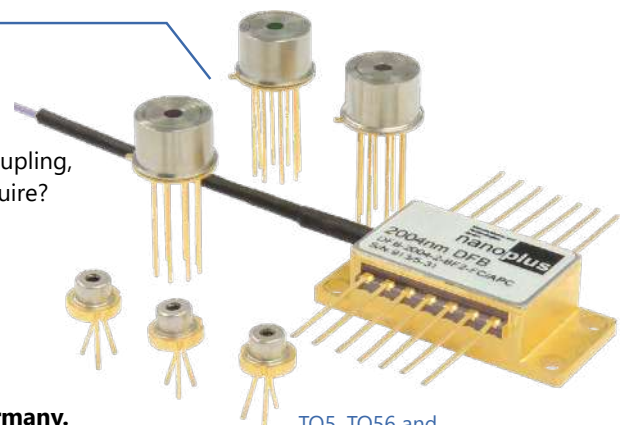
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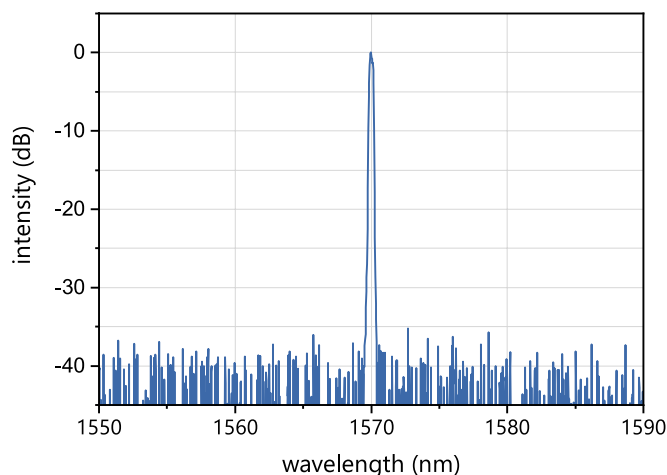
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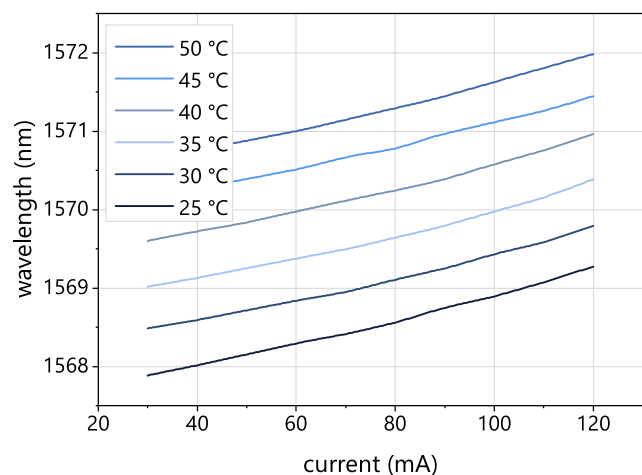


Superior Specifications: 1560/1570/1580/1590 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 1570 nm with enhanced specifications**. They are equally valid for 1560 nm, 1580 nm and 1590 nm. Standard specifications are available at: <https://nanoplus.com/DFB/1300-1650-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB laser at 1570 nm



Typical mode hop free tuning of a nanoplus
DFB laser at 1570 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		1570	
optical output power (at λ_{op})	P_{op}	mW		8	
operating current	I_{op}	mA		70	
operating voltage	V_{op}	V		2	
threshold current	I_{th}	mA	10	15	25
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C_I	nm / mA	0.008	0.012	0.020
temperature tuning coefficient	C_T	nm / K	0.08	0.11	0.13
operating chip temperature	T_{op}	°C	+20	+30	+45
operating case temperature*	T_c	°C	-20	+25	+55
storage temperature*	T_s	°C	-40	+20	+80

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laser packaging options

TO5 with TEC and NTC, black cap, AR coated window

TO56 without TEC or NTC, sealed, window

c-mount without TEC or NTC

butterfly package with TEC and NTC, SM or PM fiber, FC/APC connector

chip on carrier without TEC, with NTC

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TOP Wavelengths

DFB: 1651 nm & 1654 nm

TOP WAVELENGTH

760.8 nm
1278.8 nm
1392.0 nm
1512.2 nm
1560 - 1590 nm

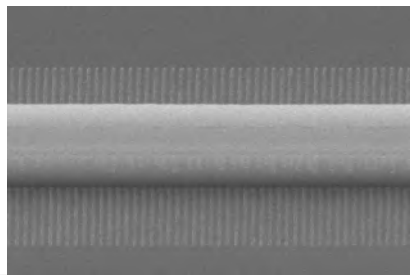
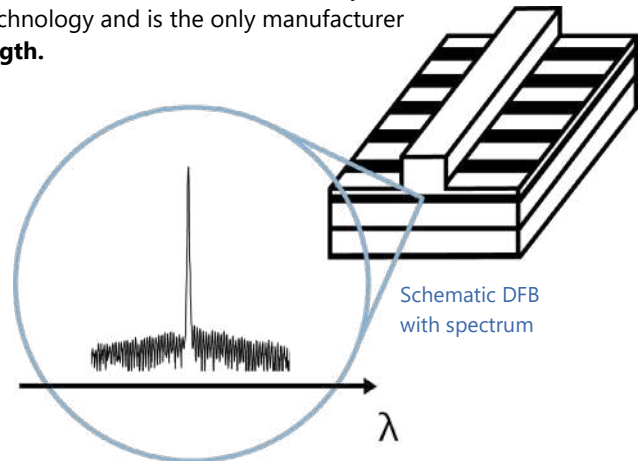
1651 & 1654 nm

1742.0 nm
1854 & 1877 nm
2004.0 nm
2330 & 2334 nm
3240 & 3270 nm
3345 & 3375 nm
4524 & 4534 nm
5184 & 5263 nm

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Key features:

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



Overgrowth-free DFB device processing

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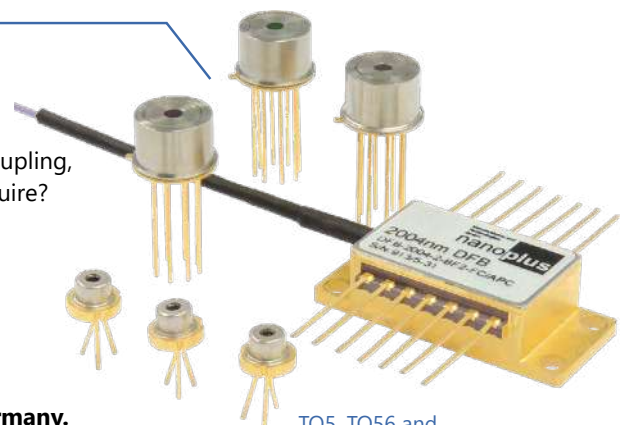
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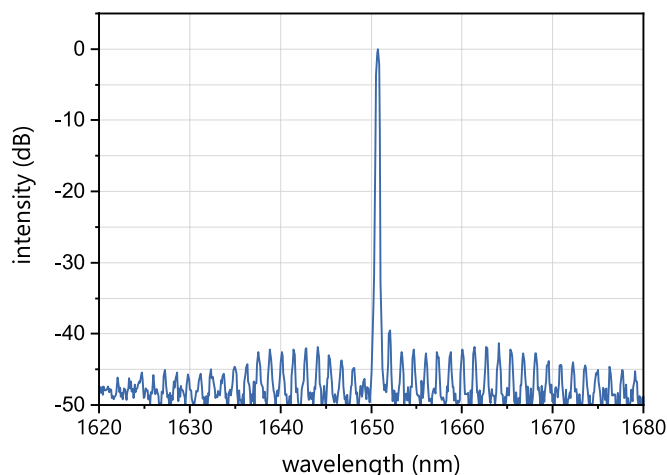
TO5, TO56 and
fiber coupled
butterfly package

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We make market leaders!

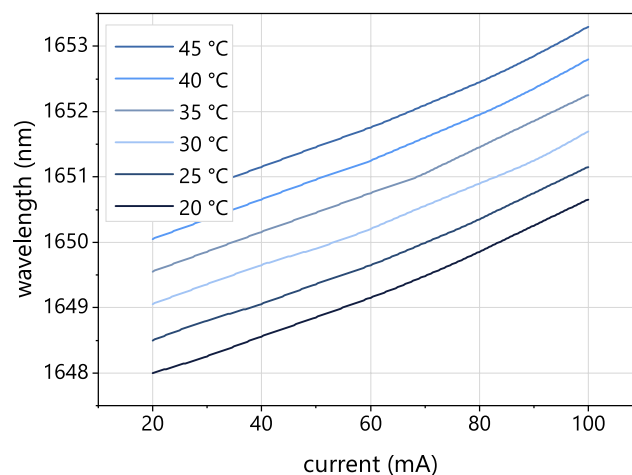


Superior Specifications: 1651 nm & 1654 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 1651 nm with enhanced specifications**. They are equally valid for 1654 nm. Standard specifications are available at: <https://nanoplus.com/DFB/1650-1850-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB laser at 1651 nm



Typical mode hop free tuning of a nanoplus
DFB laser at 1651 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		1651	
optical output power (at λ_{op})	P_{op}	mW		8	
operating current	I_{op}	mA		70	
operating voltage	V_{op}	V		2	
threshold current	I_{th}	mA	10	20	30
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C_I	nm / mA	0.008	0.012	0.015
temperature tuning coefficient	C_T	nm / K	0.10	0.11	0.14
operating chip temperature	T_{op}	°C	+20	+25	+45
operating case temperature*	T_c	°C	-20	+25	+55
storage temperature*	T_s	°C	-40	+20	+80

* non-condensing

laser packaging options

TO5 with TEC and NTC, black cap, AR coated window

TO56 without TEC or NTC, sealed, window

c-mount without TEC or NTC

butterfly package with TEC and NTC, SM or PM fiber, FC/APC connector

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TOP Wavelengths

DFB: 1742.0 nm

TOP WAVELENGTH

760.8 nm
1278.8 nm
1392.0 nm
1512.2 nm
1560 - 1590 nm
1651 & 1654 nm

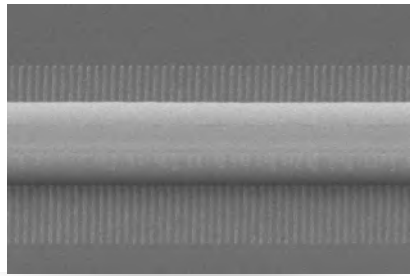
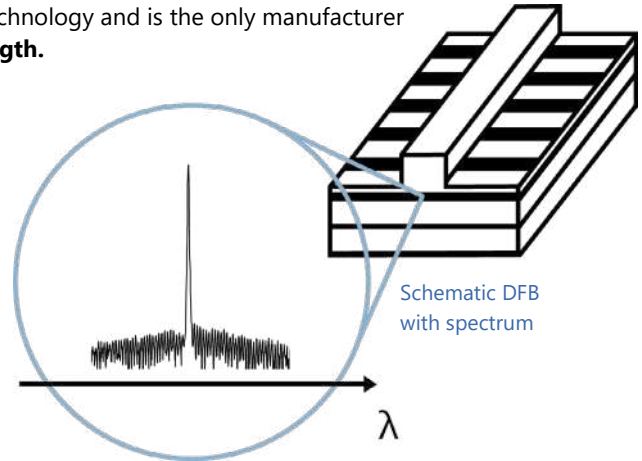
1742.0 nm

1854 & 1877 nm
2004.0 nm
2330 & 2334 nm
3240 & 3270 nm
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4524 & 4534 nm
5184 & 5263 nm

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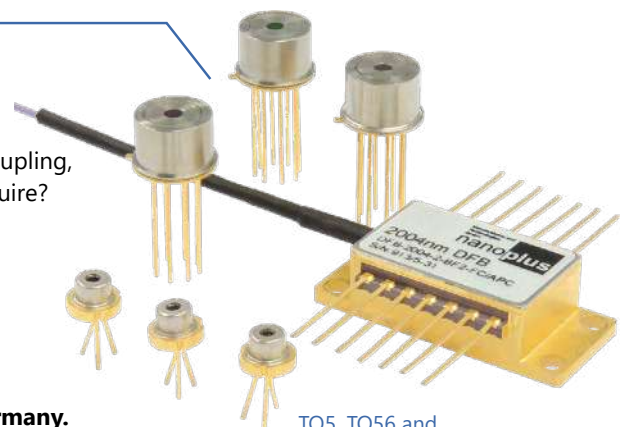
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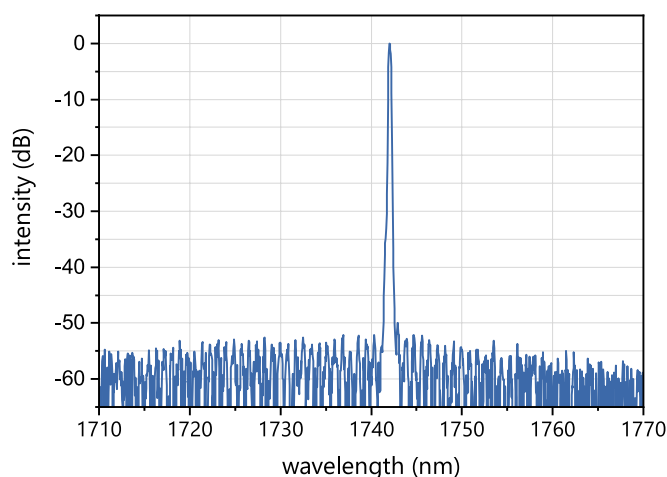
TO5, TO56 and
fiber coupled
butterfly package

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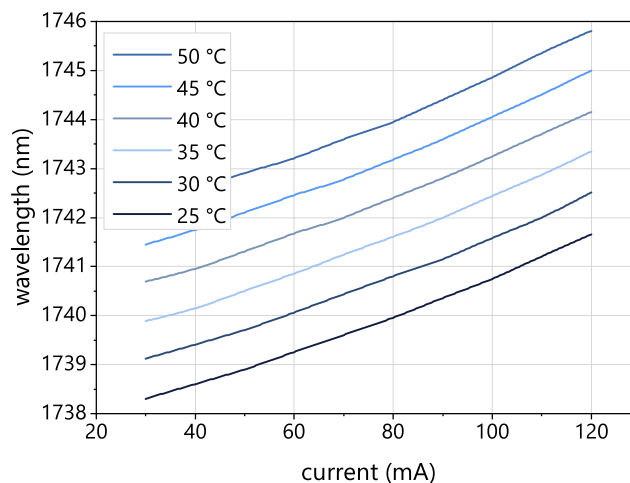


Superior Specifications: 1742.0 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 1742.0 nm with enhanced specifications**. Standard specifications are available at: <https://nanoplus.com/DFB/1650-1850-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB laser at 1742.0 nm



Typical mode hop free tuning of a nanoplus
DFB laser at 1742.0 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		1742.0	
optical output power (at λ_{op})	P_{op}	mW		5	
operating current	I_{op}	mA		70	
operating voltage	V_{op}	V		2	
threshold current	I_{th}	mA	10	25	30
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C_I	nm / mA	0.008	0.02	0.03
temperature tuning coefficient	C_T	nm / K	0.07	0.10	0.14
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

* non-condensing

laser packaging options

TO5 with TEC and NTC, black cap, AR coated window

TO56 without TEC or NTC, sealed, window

c-mount without TEC or NTC

butterfly package with TEC and NTC, SM or PM fiber, FC/APC connector

chip on carrier without TEC, with NTC

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TOP Wavelengths

DFB: 1854 nm & 1877 nm

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 & 3375 nm

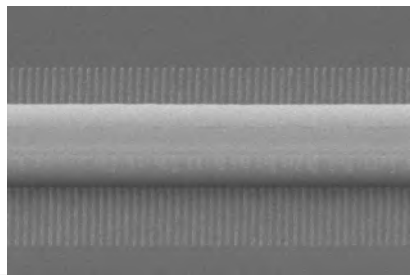
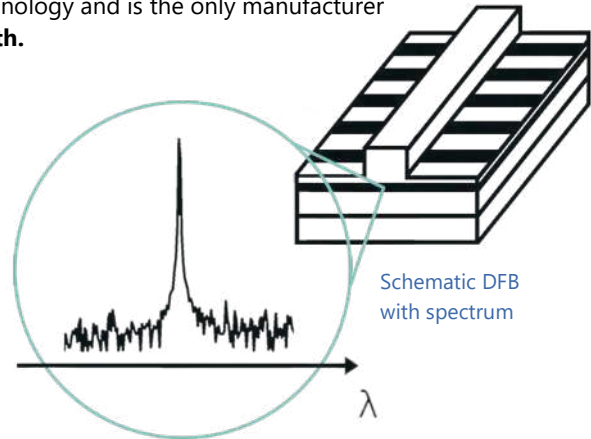
4524 & 4534 nm

5184 & 5263 nm

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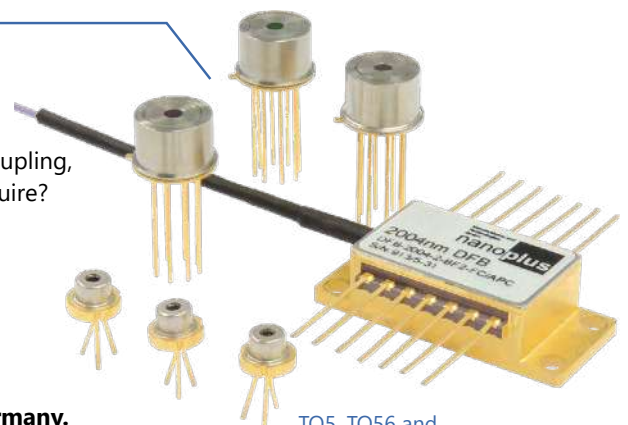
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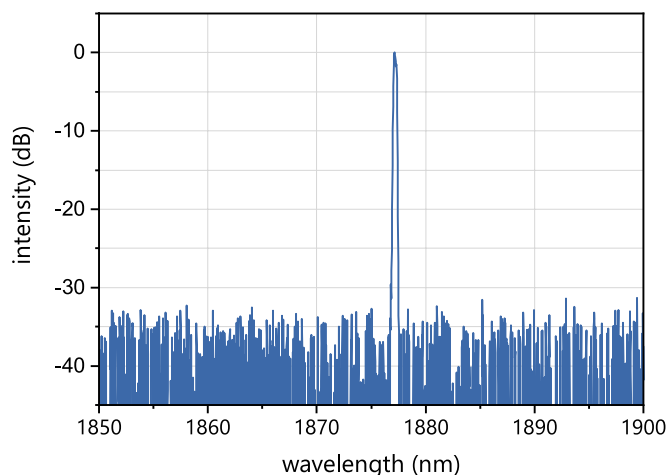
TO5, TO56 and
fiber coupled
butterfly package

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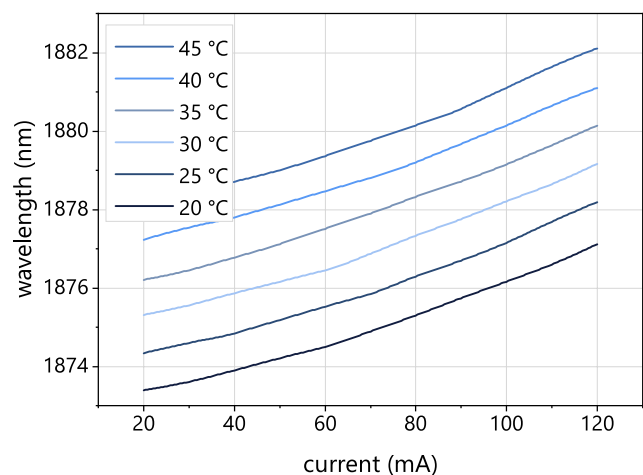


Superior Specifications: 1854 nm & 1877 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 1877 nm with enhanced specifications**. They are equally valid for 1854 nm. Standard specifications are available at: <https://nanoplus.com/DFB/1850-2200-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB laser at 1877 nm



Typical mode hop free tuning of a nanoplus
DFB laser at 1877 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		1877	
optical output power (at λ_{op})	P_{op}	mW		5	
operating current	I_{op}	mA		100	
operating voltage	V_{op}	V		2	
threshold current	I_{th}	mA	8	18	32
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C_I	nm / mA	0.017	0.025	0.035
temperature tuning coefficient	C_T	nm / K	0.17	0.19	0.21
operating chip temperature	T_{op}	°C	+20	+25	+45
operating case temperature*	T_c	°C	-20	+25	+55
storage temperature*	T_s	°C	-40	+20	+80

* non-condensing

laser packaging options

TO5 with TEC and NTC, black cap, AR coated window

TO56 without TEC or NTC, sealed, window

c-mount without TEC or NTC

butterfly package with TEC and NTC, SM or PM fiber, FC/APC connector

chip on carrier without TEC, with NTC

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TOP Wavelengths

DFB: 2004.0 nm

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

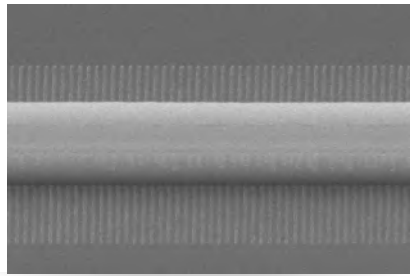
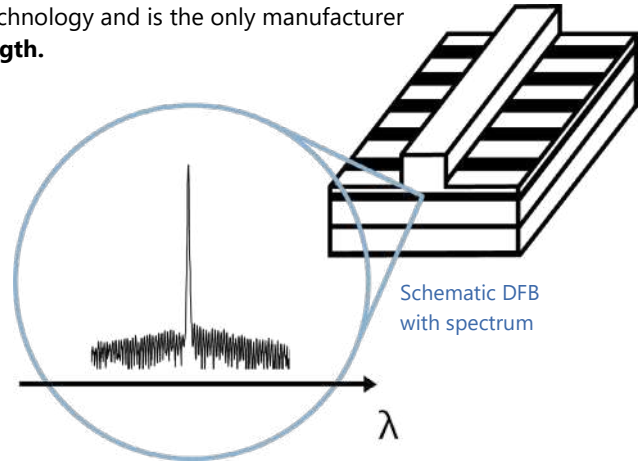
2004.0 nm

2330 & 2334 nm
3240 & 3270 nm
3345 & 3375 nm
4524 & 4534 nm
5184 & 5263 nm

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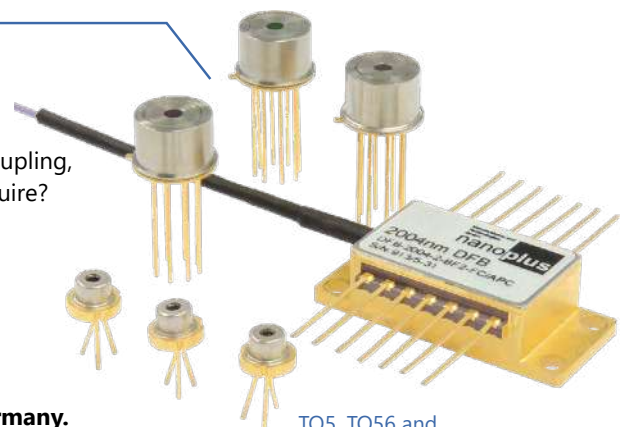
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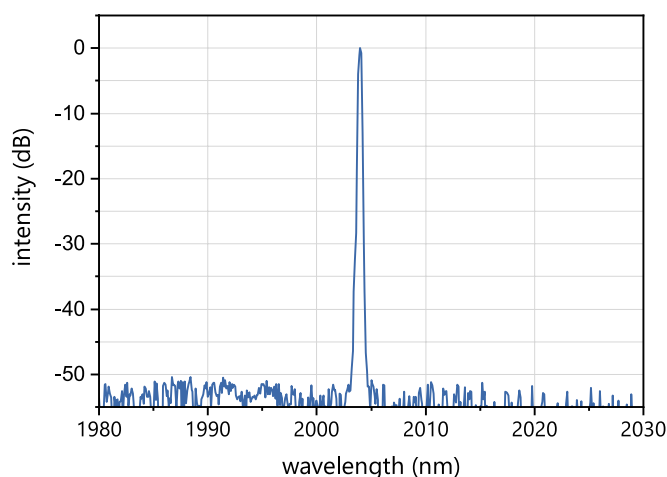
TO5, TO56 and
fiber coupled
butterfly package

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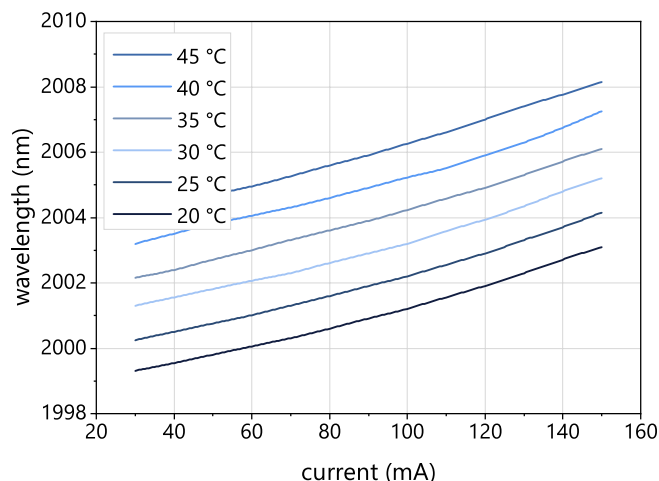


Superior Specifications: 2004.0 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 2004.0 nm with enhanced specifications**. Standard specifications are available at: <https://nanoplus.com/DFB/1850-2200-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB laser at 2004.0 nm



Typical mode hop free tuning of a nanoplus
DFB laser at 2004.0 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		2004.0	
optical output power (at λ_{op})	P_{op}	mW		5	
operating current	I_{op}	mA		100	
operating voltage	V_{op}	V		2	
threshold current	I_{th}	mA	5	10	25
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C_I	nm / mA	0.019	0.025	0.035
temperature tuning coefficient	C_T	nm / K	0.18	0.19	0.21
operating chip temperature	T_{op}	°C	+20	+30	+45
operating case temperature*	T_c	°C	-20	+25	+55
storage temperature*	T_s	°C	-40	+20	+80

* non-condensing

laser packaging options

TO5 with TEC and NTC, black cap, AR coated window

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TOP Wavelengths

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1560 - 1590 nm
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1854 & 1877 nm
2004.0 nm

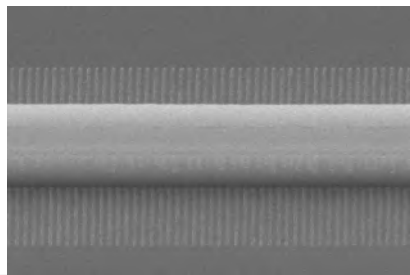
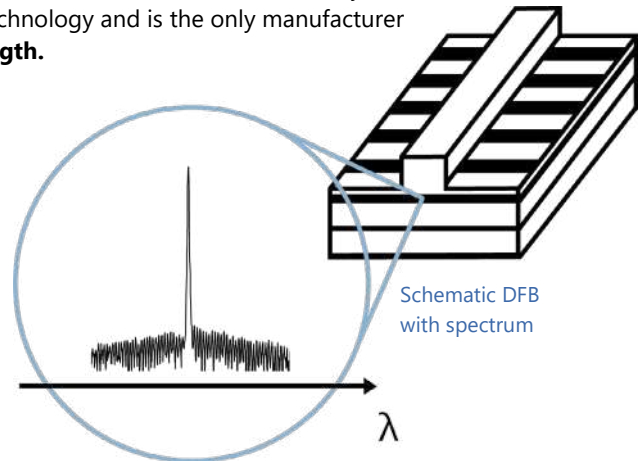
2330 & 2334 nm

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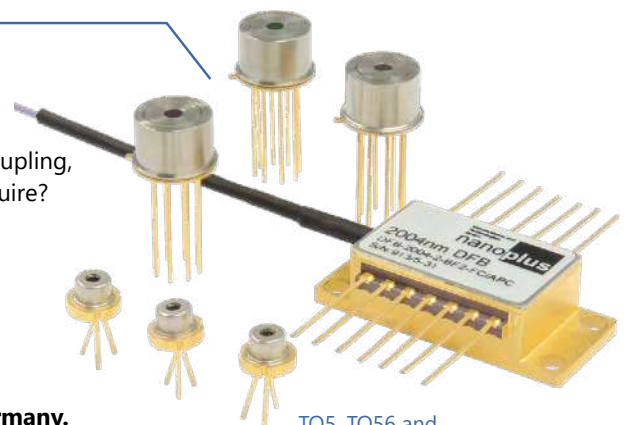
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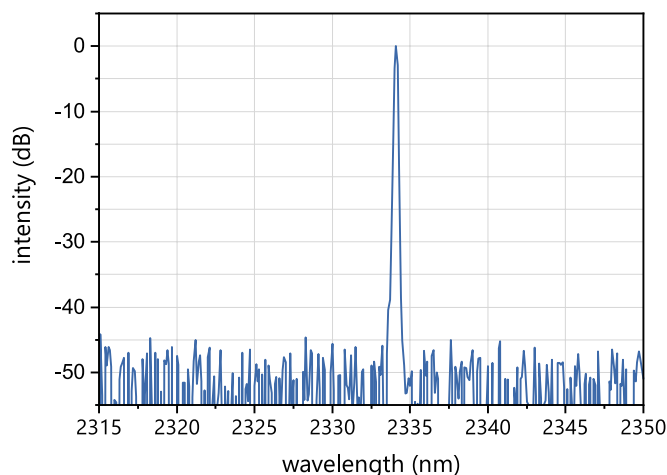
TO5, TO56 and
fiber coupled
butterfly package

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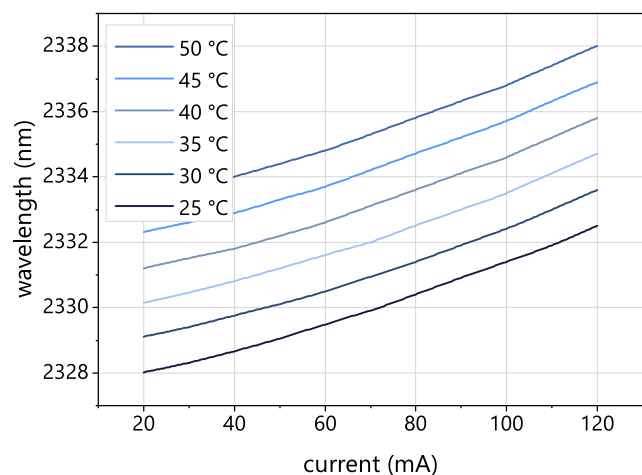


Superior Specifications: 2330 nm & 2334 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 2334 nm with enhanced specifications**. They are equally valid for 2330 nm. Standard specifications are available at: <https://nanoplus.com/DFB/2200-2600-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB laser at 2334 nm



Typical mode hop free tuning of a nanoplus
DFB laser at 2334 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		2330 / 2334	
optical output power (at λ_{op})	P_{op}	mW		6	
operating current	I_{op}	mA		100	
operating voltage	V_{op}	V		2.3	
threshold current	I_{th}	mA	5	10	22
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C_I	nm / mA	0.022	0.04	0.07
temperature tuning coefficient	C_T	nm / K	0.19	0.20	0.23
operating chip temperature	T_{op}	°C	+20	+30	+45
operating case temperature*	T_c	°C	-20	+25	+55
storage temperature*	T_s	°C	-40	+20	+80

* non-condensing

laser packaging options

TO5 with TEC and NTC, black cap, AR coated window

TO56 without TEC or NTC, sealed, window

c-mount 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://nanoplus.com/packaging-options>

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nanoplus Nanosystems and Technologies GmbH, www.nanoplus.com, phone: +49 (0) 3693 50 5000-0, email: sales@nanoplus.com

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TOP Wavelengths

DFB: 3240 nm & 3270 nm

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

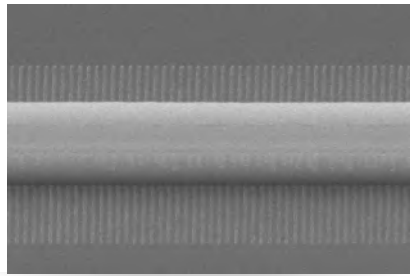
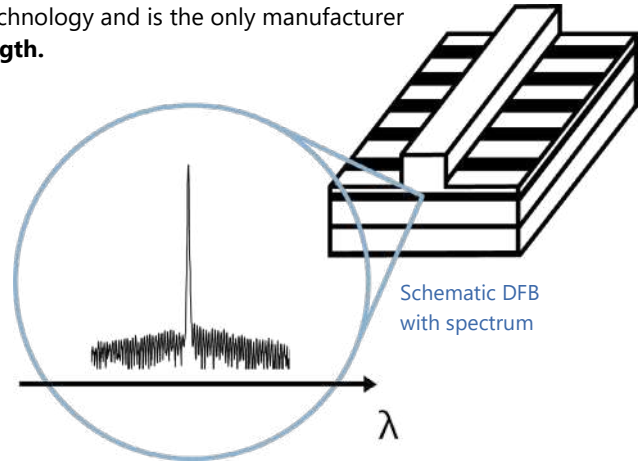
3240 & 3270 nm

3345 & 3375 nm
4524 & 4534 nm
5184 & 5263 nm

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- CONTINUOUS WAVE
- ROOM TEMPERATURE
- MODE HOP FREE TUNING



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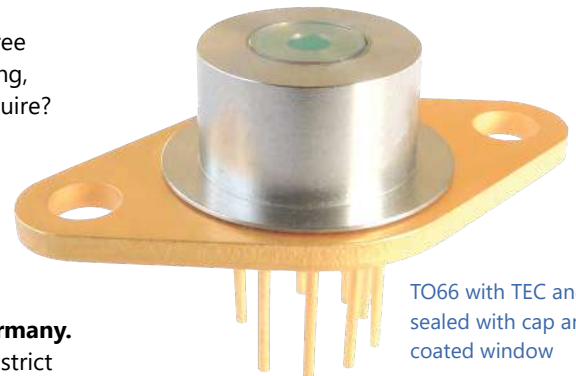
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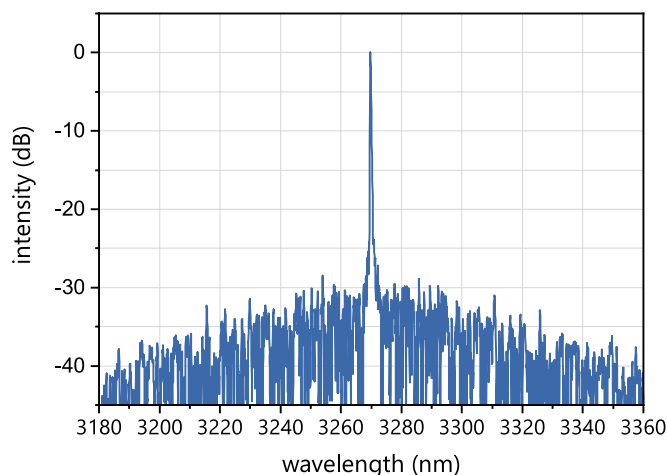
TO66 with TEC and NTC, sealed with cap and AR coated window



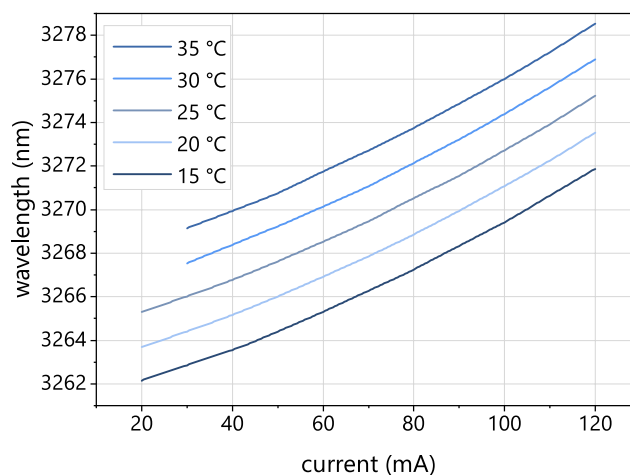
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We make market leaders!

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: <https://nanoplus.com/DFB/2800-4000-nm>.



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



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

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		3270	
optical output power (at λ_{op})	P_{op}	mW		15	
operating current	I_{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_I	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*	T_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.

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TOP Wavelengths

DFB: 3345 nm & 3375 nm

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 & 3375 nm

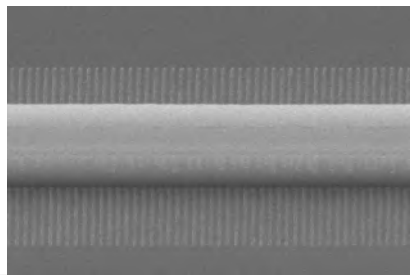
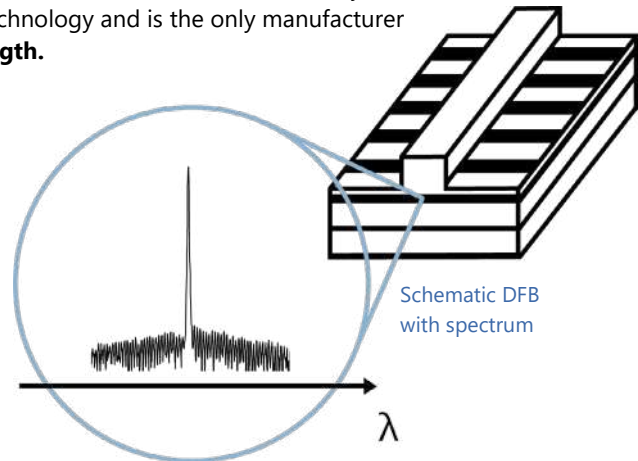
4524 & 4534 nm

5184 & 5263 nm

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Key features:

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- CONTINUOUS WAVE
- ROOM TEMPERATURE
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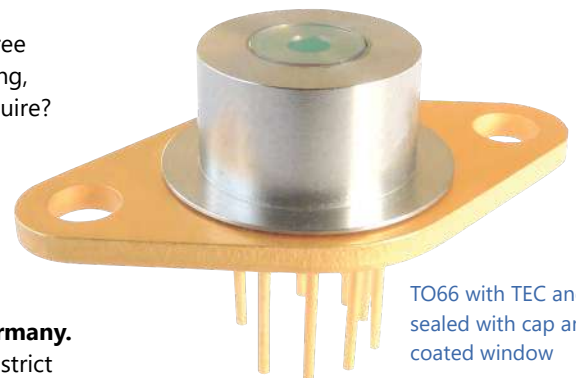
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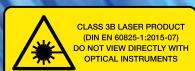
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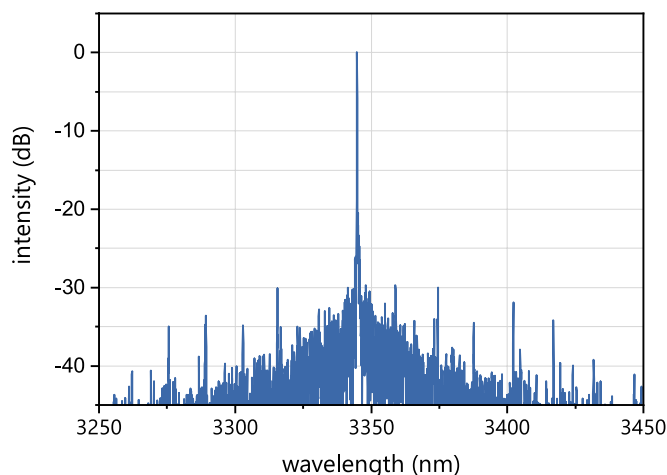
TO66 with TEC and NTC, sealed with cap and AR coated window



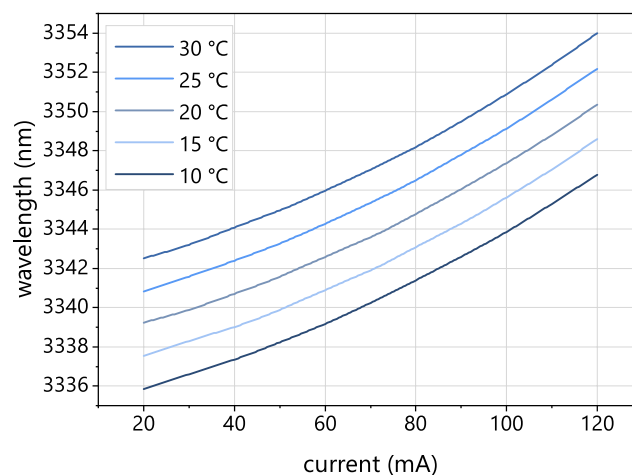
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We make market leaders!

Superior Specifications: 3345 nm & 3375 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 3345 nm with enhanced specifications**. They are equally valid for 3375 nm. Standard specifications are available at: <https://nanoplus.com/DFB/2800-4000-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB ICL at 3345 nm



Typical mode hop free tuning of a nanoplus
DFB ICL at 3345 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		3345	
optical output power (at λ_{op})	P_{op}	mW		15	
operating current	I_{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_I	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*	T_s	°C	-30	+20	+70

* non-condensing

laser packaging options

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

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TOP Wavelengths

DFB: 4524 nm & 4534 nm

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 & 3375 nm

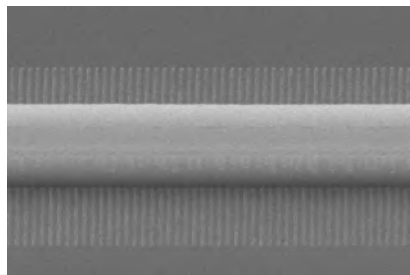
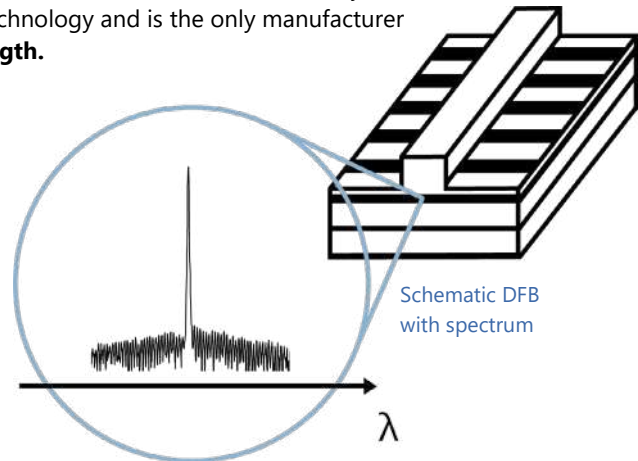
4524 & 4534 nm

5184 & 5263 nm

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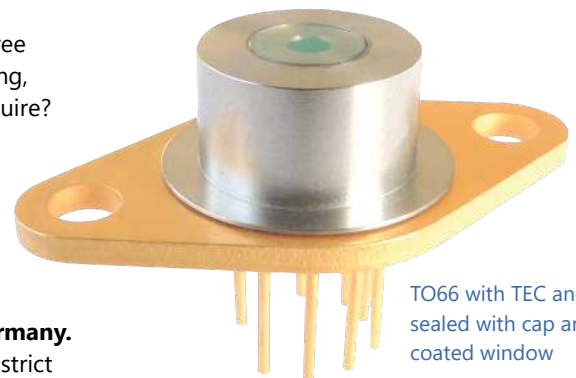
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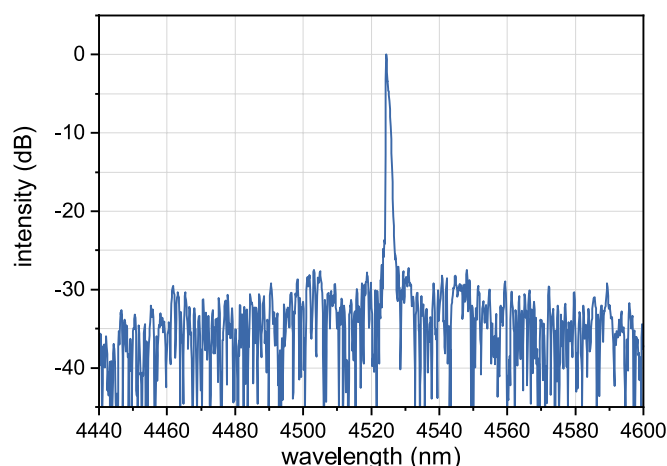
TO66 with TEC and NTC, sealed with cap and AR coated window

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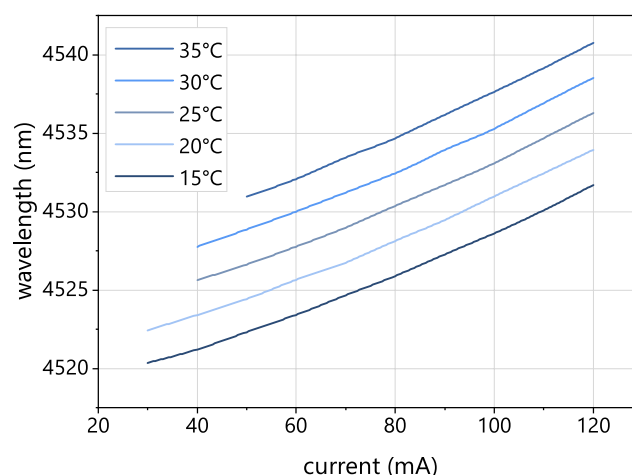


Superior Specifications: 4524 nm & 4534 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 4524 nm with enhanced specifications**. They are equally valid for 4534 nm.
Standard specifications are available at: <https://nanoplus.com/DFB/4000-4600-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB ICL at 4524 nm



Typical mode hop free tuning of a nanoplus
DFB ICL at 4524 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		4524	
optical output power (at λ_{op})	P_{op}	mW		8	
operating current	I_{op}	mA		120	
operating voltage	V_{op}	V		5	
threshold current	I_{th}	mA	20	30	40
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C_I	nm / mA		0.12	
temperature tuning coefficient	C_T	nm / K		0.45	
operating chip temperature	T_{op}	°C	+15	+20	+40
operating case temperature*	T_c	°C	-20	+25	+55
storage temperature*	T_s	°C	-30	+20	+70

* non-condensing

laser packaging options

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TOP Wavelengths

DFB: 5184 nm & 5263 nm

TOP WAVELENGTH

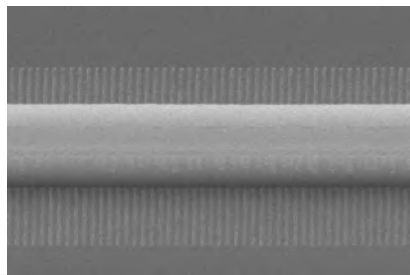
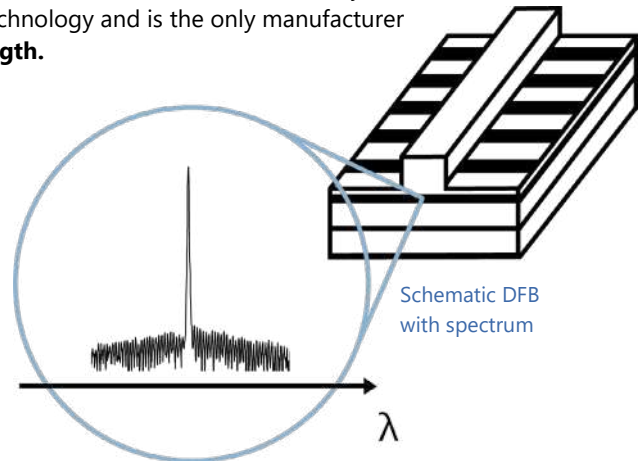
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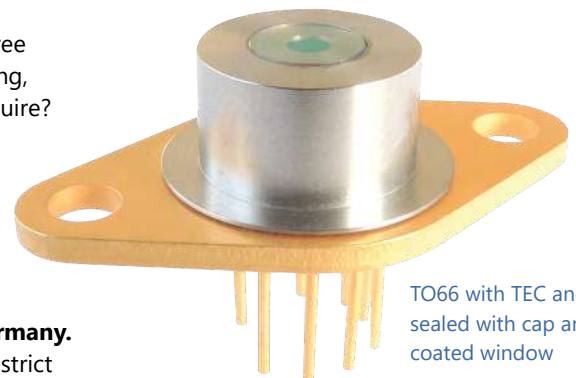
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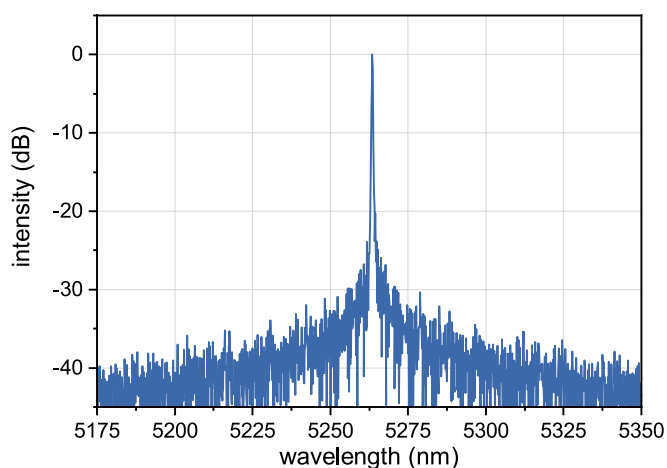
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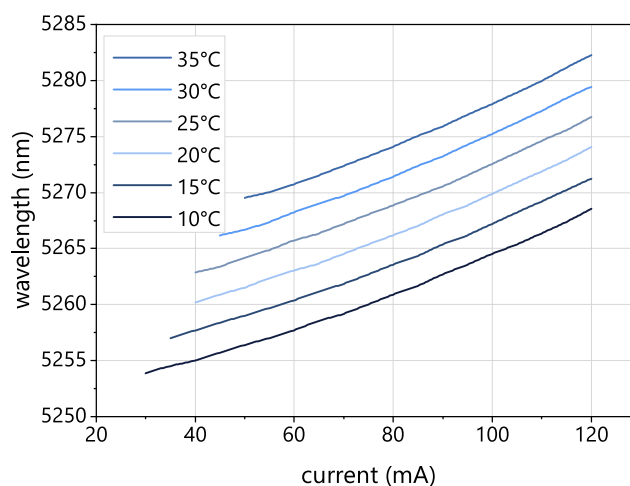


Superior Specifications: 5184 nm & 5263 nm

This data sheet reports performance data of a **sample nanoplus DFB laser at 5263 nm with enhanced specifications**. They are equally valid for 5184 nm.
Standard specifications are available at: <https://nanoplus.com/DFB/4600-5300-nm>.



Typical room temperature cw spectrum
of a nanoplus DFB ICL at 5263 nm



Typical mode hop free tuning of a nanoplus
DFB ICL at 5263 nm by current and temperature

electro-optical characteristics	symbol	unit	min.	typ	max.
operating wavelength (at T_{op} , I_{op})	λ_{op}	nm		5263	
optical output power (at λ_{op})	P_{op}	mW		6	
operating current	I_{op}	mA		120	
operating voltage	V_{op}	V		5	
threshold current	I_{th}	mA	25	35	55
side mode suppression ratio	SMSR	dB		> 35	
current tuning coefficient	C_I	nm / mA		0.14	
temperature tuning coefficient	C_T	nm / K		0.48	
operating chip temperature	T_{op}	°C	+15	+20	+40
operating case temperature*	T_c	°C	-20	+25	+55
storage temperature*	T_s	°C	-30	+20	+70

* non-condensing

laser packaging options

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