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# Narrow Bandwidth DFB Laser Diode Modules

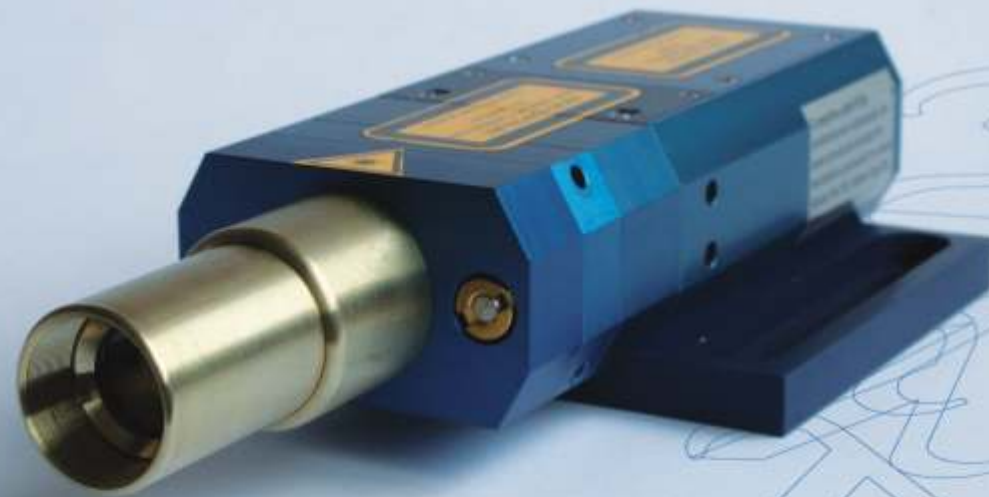
narrow linewidth  
high coherence length

## DFB Laser Diode Modules

Omicron's Photon-Series lasers offer high performance in all applications where narrow linewidth, stable wavelength and high coherence length is needed.

The **Redphoton® DFB**, "Distributed FeedBack" laser systems offer narrow linewidth (<2MHz), high output power and optional tunability. The integrated DFB laser diodes are using Bragg gratings, integrated into the active region of the semiconductor, to provide single-frequency operation and high coherence (coherence length up to 250m). The optionally fibre coupled **Redphoton®** DFB laser modules, which are available in a wide range of IR wavelengths are ideal light sources for applications like RAMAN spectroscopy or THz generation, alkaline spectroscopy, gas detection and many others.

Like all Photon-Series laser diode modules they are based on the Omicron modular principle which offers a huge variety of options like direct fibre coupling, focussing and collimation optics, optical isolators, shutters, electro-optical monitoring and many more.



### Specifications CWA.L.NB-Models

	Redphoton® CWA.L.NB
Wavelengths & Powers (other wavelengths and powers on request)	<b>Single-Mode:</b> 760nm / 40mW 763nm / 50mW 773nm / 75mW 780nm / 80mW 784nm / 100mW 785nm / 150mW 852nm / 150mW 923nm / 100mW 937nm / 100mW 976nm / 150mW 1060nm / 150mW
Beam diameter (other diameters on request)	1.25mm (1/e <sup>2</sup> ) +/- 0.25mm
Beam quality M <sup>2</sup>	< 1.2
Astigmatism (corrected)	< 0.2*ZR
Beam ellipticity	< 1.1:1
Optical bandwidth	< 10 MHz (2 MHz typical)
Polarisation	> 100:1 vertical
Power stability	< 0.5% / h
Noise 0Hz-100MHz	< 0.5% peak<>peak
Modulation speed	Analog: 100Hz Digital: 10kHz
Supply voltage	24VDC, 2 Amp.
Features	Safety- interlock LCD-working-hours display Remote-connector
Options	LDM.COL - collimator objective LDM.FOC - customized focussing objective LDM.AAC - <b>A</b> utomatic <b>A</b> ging <b>C</b> ompensation LDM.FASY.XXX - fibre coupling unit LDM.24VPSU - world wide power supply