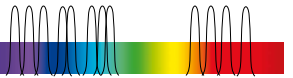




Laser diode modules fiber coupled



Laser diode modules free beam



LASOS® LDM laser series

The LASOS® LDM laser series provide excellent beam quality in a variety of wavelengths based on the latest generation of laser diodes in the visible. Special features are:

- Compact and robust housing with fully integrated electronics
- Single mode output with high beam quality
- High power stability due to power control loop
- Direct modulation of the output power
- Low noise
- Adjustment free fiber coupling available
- Suitable for all plug-in system solutions

The LASOS LDM laser series provide the ideal products for applications in bioanalytical research, particle measurements, confocal microscopy, metrology, industrial measurements, testing, medical, science, or education.

Customized solutions for specific applications are possible.

	VLD F ▼▼▼▼	BLD F ▼▼▼	GLD F ▼	RLD F ▼▼▼▼
Wavelength [nm]	405 415 425 445	460 473 488	515	638 642 660 685
Output power [mW]	50 50 50 20	40 35 35	10	75 60 50 25
Fiber Coupling	Pigtail			
Fiber type	Single mode, polarization maintaining			
Fiber length	2 m, others on request			
Fiber connector	FC 8° polish, others on request			
Fiber jacket	Standard: 3 mm PVC (PVC)			
	optional: 5 mm steel-reinforced Silicone (SRS)			
	optional: 5 mm stainless steel (ST)			
Spectral width (FWHM)	< 3 nm			
Polarization at fiber output	> 80:1			
Operation temperature range	15 °C...40 °C			
Optical noise [30 Hz...10 MHz]	< 1% rms			
Power stability over 8 h	< ± 2 %			
Bandwidth of modulation:				
Analog modulation in power control mode	1 MHz			
Analog modulation in current control mode	20 MHz			
Digital modulation in current control mode	100 MHz			
Modulation signal	0..5 V			
Laser enable/disable	TTL Signal, 1 MHz			
Extinction ratio	≥ 100,000:1			
Operating voltage	12...15 V			

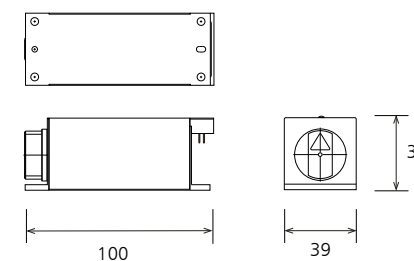
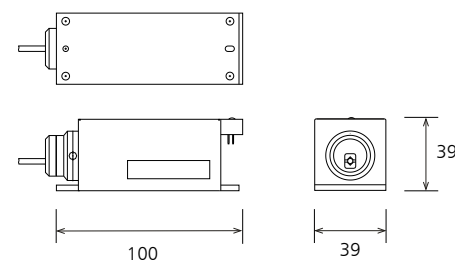
	VLD F ▼▼▼▼	BLD F ▼▼▼	GLD F ▼	RLD F ▼▼▼▼
Wavelength [nm]	405 415 425 445	460 473 488	515	638 642 660 685
Output power [mW]	100 100 100 40	80 75 75	20	150 120 100 50
Beam diameter	0.8 mm			
Beam divergence	≤ 1.3 mm			
Spot roundness	0.5...1.8			
Beam quality M ²	< 1.4 (TEM ₀₀)			
Coupling efficiency into single mode fiber	≥ 70 %			
Pointing stability	< 6 μrad/K			
Spectral width (FWHM)	< 3 nm			
Polarization ratio	> 100:1			
Operation temperature range	15°C...40°C			
Optical noise [30 Hz...10 MHz]	< 1% rms			
Power stability over 8 h	< ± 2%			
Bandwidth of modulation:				
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Operating voltage	12...15 V			

Model key for orders and enquiries:
Model - Wavelength - Output power - Fiber jacket
(example: VLD F - 405 - 50 - PVC)

Options:
- Collimated output
- Collimated output with precision plug (on request)
- Customized OEM versions

Model key for orders and enquiries:
Model - Wavelength - Outputpower
(example: VLD - 405 - 100)

Dimensions [mm]:



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