

Specifications

	LDM-375	LDM-405	LDM-445	LDM-488	Unit	Comments
Wavelength	375	405	445	488	nm	tolerance ± 5 nm
Power	15	100	40	50	mW	
Spectral Range	1				nm	
Power Stability	± 1				%	p-p, over 8 hours and ± 3 °C
Optical Noise	< 1	< 0.5	< 0.5	< 0.5	%	rms, 10 Hz - 2 MHz
Beam Dimensions (elliptical)	1.5 x 2.5	1 x 2.5	1 x 2.5	1.5 x 3	mm	at $1/e^2$, at 50 mm from aperture
Beam Divergence (elliptical)	< 0.6	< 0.6	< 0.6	< 1	mrاد	$1/e^2$, full angle, in far field
Polarization Ratio	100:1					

System Parameters

Operating Temperature	10 - 40	10 - 40	10 - 35	10 - 40	°C	ambient temperature
Power Consumption	2.5				W	OEM version, stationary
Start-up Time	1				min	
External Control Interface						
TTL Modulation	10/2				μ s	rise/fall time
Analog Modulation Bandwidth	100	50	100	100	KHz	- 3 dB cut off frequency
Plug and Play Dimensions	34 x 156				mm	\varnothing x L
OEM Dimensions	30 x 150				mm	\varnothing x L
OEM Power Supply Requirements						
Input Voltage	4.8 - 6				V	ripple < 1%
Input Current	< 2				A	at start-up
Weight (Laser Head)	250				g	

Ordering Information

In order to request a laser, build the product code based on the following criteria:

Laser Head	Driver
375-15-COL	-PP
405-100-COL	
445-40-COL	
488-50-COL	-OE

For example: 405-100-COL-PP for a Laser Diode Module, 405 nm, 100 mW, Collimated, Plug and Play version.

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