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C. Vilanoveta, 6 08800 Vilanova i la Geltrú Barcelona | Spain Telf.: +34 938 149 450 Fax.: +34 938 143 767 www.monocrom.com

Product Division	<b>LDM</b> Laser Diode Modules
Product	M- Series VIS
Description	Modulatable & Focusable Visible Wavelength Laser Diode Module
Main Features	<ul> <li>Compact design</li> <li>Low bore-sight</li> <li>CW and modulatable</li> <li>High quality lens, and excellent beam performance</li> <li>Wide range of visible wavelengths available</li> </ul>
Some Applications	<ul> <li>Automatics &amp; Robotics</li> <li>Guidance.</li> <li>Bio-medics</li> <li>Lighting</li> <li>Imaging</li> </ul>
Picture	
Outline	



## MODULATABLE & FOCUSABLE LASER DIODE MODULES M Series

PRDERING LDM STANDARD PART NUMBER CODE MC-WW PP H-A LLL								L				
MC: Standard basic LDM		WW: Wave	elength			PP: LD Optical power						
H: Housing: M		A: Clear a	perture: 2, 3	3, 4, 5, 6		LLL: Optics						
		ERAL SPECIE										
Model	4005	4035	4099	6305	6310	6335	63150 <sup>(3)</sup>	6507	6535	6707		
Wavelength [nm]	405±5	405±10	405±5	635±5	635±5	635±5	635±5	655±5	655±5	675±5		
Po.max[mW] <sup>(1)</sup> with A10 lens	2,5	28	100	2,5	10	25	100	5	25	5		
lop.[mA] @mx.Po	60	50	120	50	80	100	250	60	100	50		
Temp.op [°C]	-10 to 60	-10 t	io 70		-10 to 50		-10 to 40		-10 to 60			
Storage temperature [°C]	-40 to 85											
Clear aperture	From 2 to 6 mm (to be specified at order)											
Divergence min	0,3 mrd (with A15 lens)											
Polarisation ratio	>50:1											
Output power stability @ Po. Max (2)	<0,5%RMS											
Bore sight	< 10 mrd											
Reverse voltage protection circuit	Built in											
Op. voltage for cw	5±5% Vdc (Available on 24V DC, and/or with with external Regulator along the cable)											
Expected lifetime	>10.000 Hours											
Wires, typical	Feeding: 200mm Flying leads or 200mm cable+standard connector. Modulation/Regulation: RG174 cable. If Only Regulation: Options: a) 3 pin Mini-DIN connector, b) Power regulator knob along the cable, c)Power regulation knob in the power supply											
Laser product class	According with the radiant flux and EN-60825 classification, duly identified by labels.											
Housing	M type : Black anodizing Al $\emptyset$ 14(+0/-0,1) x length 100 (±0,5)mm											

Conditions @ 25°C while not specified. Specifications could change depending on LD used.

(1) Power with 2,5V-CW input signal at modulation wire

(2) (3) From a stable input signal. Non applicable for model 63150 model Current controlled and low-frequency modulation driver (<100kHz)

OPTICS OPTIONS ( to add to the LDM type selected -LLL)																				
Lens			A10	1				A15	;				H18			L05	L10	L20	L50	L100
Туре	Glass aspheric			Glass aspheric				Acrylic aspheric				Glass cylindrical line tracing								
Clear aperture (A) [mm]	2	3	4	5	6	2	3	4	5	6	2	3	4	5	6	5	6	4	6	4
Relative efficiency [%] (collimated)	20	30	70	80	100	10	15	20	40	60	10	20	30	40	60	64	70	60	70	60
Typ. Divergence [mrd]	0,5		0,3			0,8			0,3	0,4	0,6	0,7	0,8							
Fan angle [°]	-		-			-			5	10	20	50	100							
Focal length [mm]	10		15				18				50	40	10	8	5					
Focusable range [mm]	60±40 to infinite		250±50 to infinite				150±40 to infinite				>20* to infinite									
Min. focusable diameter @ focus [µm]	70		150				150				120									
Main feature	High transmission				Low divergence Low price						No line bowing									

Specifications could change depending on LD used.

\*Depending of type of collimator

POWER REGULATION / MODULATION MODES	ANALOGUE	DIGITAL					
Input signal, Vmod, typical	0.5 to 2V (For Power from 0 to PoMax)	TTL (for Power = [0 , Po Max])					
Modulation range	CW to 10MHz (upper limit depending on LD used)						
Rise & fall time [ ns ], typical	<50ns						
Input impedance	560 Ohm						
Resistor to add in parallel for HF	50 Ohm ( @ >1MHz)						
Po with 0Vdc input signal	OW						
Po without modulation input (coaxial cable unplugged)	>50% of PoMax						

Specifications could change depending on LD used.





