

Product Division

LDM Laser Diode Modules

Product

T- Series NIR

Description

Focusable NIR wavelength Laser Diode Module

Main Features

- Focusable LDM for NIR
- Compact design
- Low bore-sight
- Low operation current
- Excellent beam performance
- Wide range of NIR wavelengths available

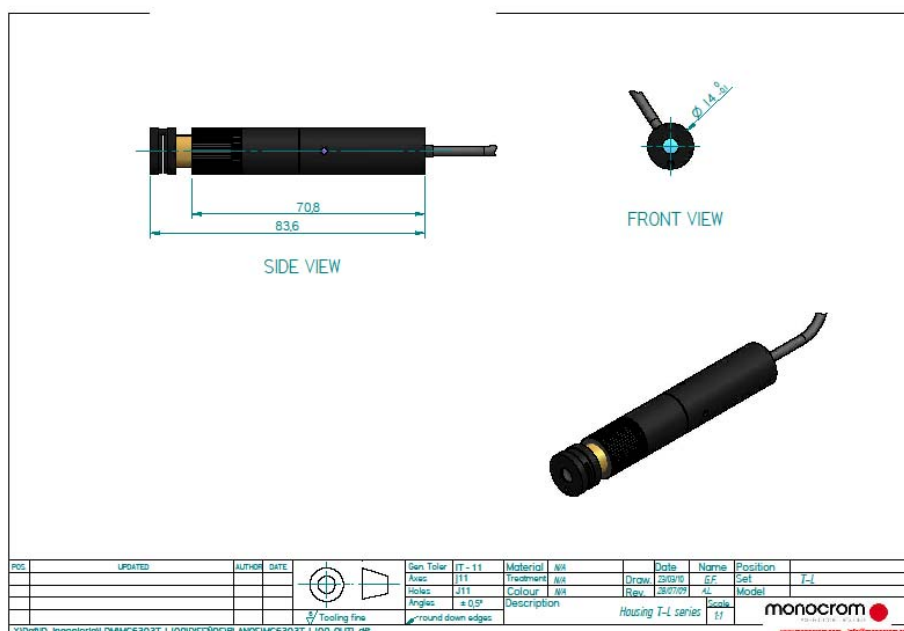
Some Applications

- Automatics & Robotics
- Guidance
- Bio-medics
- Lighting
- Imaging

Picture



Outline



FOCUSABLE LASER DIODE MODULES

T SERIES

ORDERING LDM STANDARD PART NUMBER CODE		MC-WW PP H-A LLL
MC: Standard basic LDM	WW: Wavelength	PP: Optical power
H: Housing	A: Clear aperture: 2, 3, 4, 5, 6	LLL: Optics

GENERAL SPECIFICATIONS FOR STANDARD DIODE LASER MODULES									
Model	MC7805	MC7850	MC8340	MC8390	MC8505	MC9005	MC1005	MC1505	MC1520
Wavelength (20°C) [nm]	780±5	780±5	830±10		850±10	905±5	1064±10	1550±10	
Po.max [mW]	4 to 4,7	40 to 47,5	32 to 38	72 to 85,5	4 to 4,7	4 to 4,7	4 to 4,7	4 to 4,7	16 to 19
Op. current [mA] (at max.Po@25°C)	60	100	100	120	60	60	70	90	250
Operating temperature [°C]	-10 to 60		-10 to 50		-10 to 50	-10 to 50	-10 to 40	-20 to 85	-10 to 40
Storage temperature [°C]	-40 to 85 °C								
Polarisation ratio	>50:1								
Output power stability	<0,5%RMS								
Bore sight, typical	< 10 mrd								
Reverse voltage protect	Built in								
Op. voltage for cw	4,5 (-0,2 / +1,0) Vdc Available on 24V DC with external Regulator along the cable								
Expected lifetime	>10.000 Hours								
Wires	200mm Flying leads (red:+/black:-) or 200mm cable+standard connector								
Laser product class	According with the radiant flux and EN-60825 classification, duly identified by labels.								
Housing	T type : Black anodizing Al Ø14(+0/-0,1) x length 80 (±0,5)mm								

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

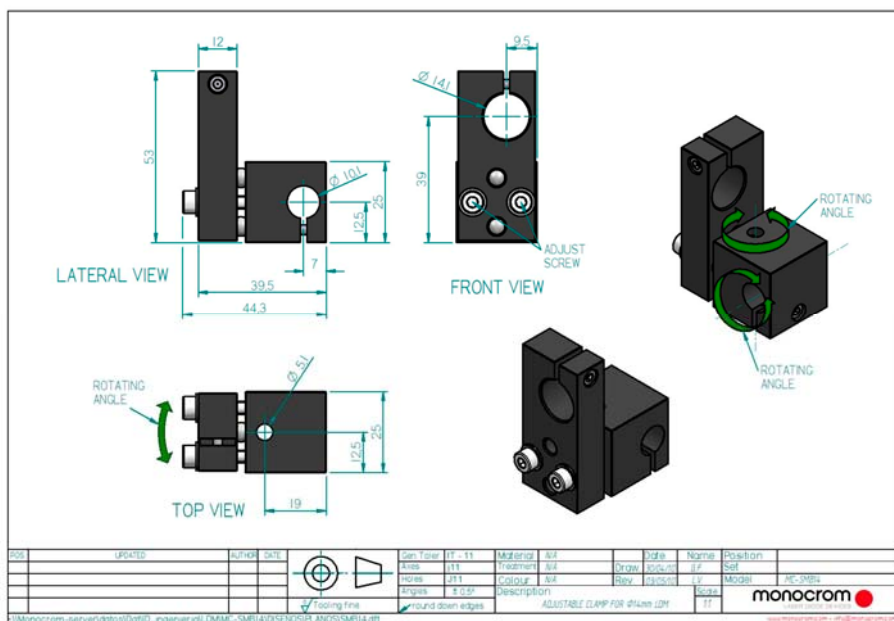
OPTICS OPTIONS (to add to the LDM type selected –LLL)																				
Lens	A10					A15					H18					L05	L10	L20	L50	L100
Type	Glass aspheric					Glass aspheric					Acrylic aspheric					Glass cylindrical line tracing				
Clear aperture (A) [mm]	2	3	4	5	6	2	3	4	5	6	2	3	4	5	6	5	6	4	6	4
Relative efficiency [%] (collimated), typical	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					70±30* 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 on collimator used

ACCESSORIES: (optionally)

MC-SMB14 (9° full angle tilting)



PSLDM5

F.A. Converter
220V AC to 4,5VDC / 1,2 A
Established Europlug



Ordering Information:



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Email orders to: sales@xsoptix.com
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