

Product Division



LDM

Laser Diode Modules

Product

T- Series VIS

Description

Focusable Visible wavelength Laser Diode Module

Main Features

- Focusable LDM for VIS
- Low bore-sight
- Lens translation (no rotation)
- Compact design
- Excellent beam performance
- Wide range of visible wavelengths available

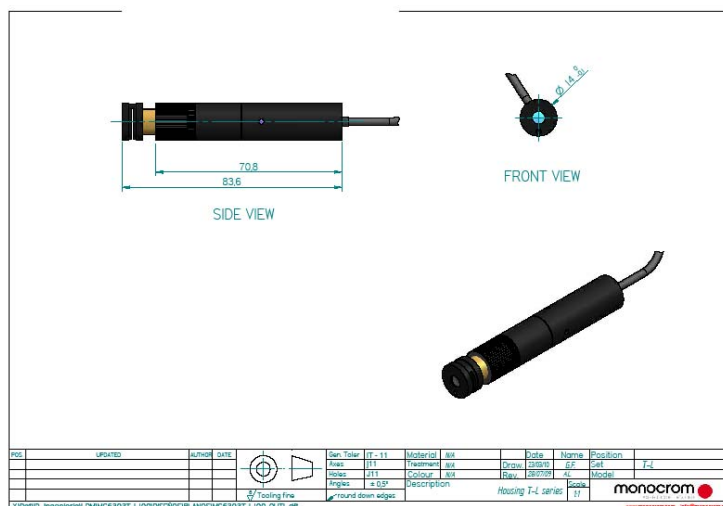
Some Applications

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

Picture



Outline



FOCUSABLE LASER 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 LASER MODULES											
Model	4005	4020	6305	6310	6320	6335	6507	6520	6535	6690	6707
Wavelength (20°C) [nm]	405±10	405±5	635+5	635+5	635+5	635±5	655±5	658-13/+7	658-13/+7	660-10/+5	675±5
Po. [mW] with 7A10 lens	4 to 4,7	16 to 19	4 to 4,7	8 to 9,5	16 to 19	28 to 33	5,6 to 6,6	16 to 19	28 to 33	70 to 84	5,6 to 6,6
Op. current [mA] typical (at max.Po@25°C)	60	75	50	40	60	130	60	80	100	150	50
Operating temperature [°C]	-10 to 60		-10 to 50				-10 to 55			-10 to 60	
Storage temperature [°C]	-40 to 85										
Polarisation ratio	>50:1										
Output power stability (RMS)	<0,5%										
Bore sight, typical	< 10 mrd										
Reverse voltage protect	Built in										
Op. voltage for cw	6Vdc		5±0,5 Vdc Available on 24V DC with external Regulator along the cable								
Expected lifetime (Hours)	>10.000										
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	7	2	3	4	5	6	2	3	4	5	6	5	6	4	6	4
Relative efficiency [%] (collimated), typical	20	30	70	80	90	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 on collimator used

ACCESSORIES: (optionally)

MC-SMB14 (9° full angle tilting)

