

Product
Division

Laser Diode Modules

Product

C- Series VIS

Description

Fibre Coupled Laser Diode Module

Main Features

- SM fibre coupled for VIS.
- Collimator ended available.
- Circular beam after SM fibre.
- Compact design.
- High quality lens and excellent beam performance.
- Wide range of wavelengths available.

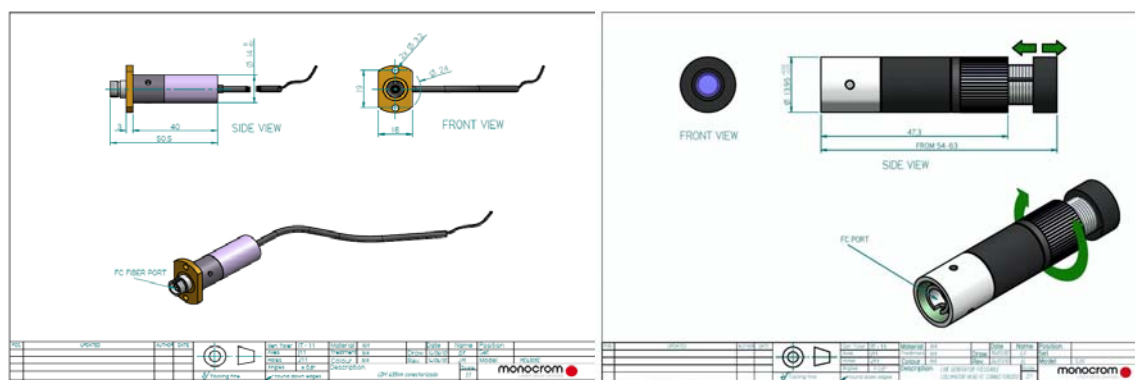
Some Applications

- Automatics & Robotics.
- Metrology.
- Guidance.
- Bio-medics.
- Lighting & Imaging.
- Fibre check.

Picture



Outline



FIBER COUPLED LASER DIODE MODULE

C-SERIES

ORDERING LDM STANDARD PART NUMBER CODE		MC-WW PP H-A LLL
MC: Standard basic LDM	WW: Wavelength	PP: Optical power
H: Housing C	-Fxxx: Patchcord	-Txxxx: Focusable optic

GENERAL SPECIFICATIONS FOR STANDARD DIODE LASER MODULES										
Model: MCxxxxC	6305	6310	6325	6335	6460	6507	6535	6690	6707	6935
Wavelength [nm]	635 ±5	635 ±5	639 ±5	635 ±5	640 ±5	655 ±5	658 +7/-13	660±5	675 ±5	690±5
Po at FC connector [mW]	4-4,8	8-9,5	20-23,7	28-33	48-57	5,6-6,7	28-33	72-85,5	5,6-6,7	28-33
Op. current [mA] typ	50	70	80	130	125	60	100	150	50	90
Op. temp. [°C]	-10 to 50				-10 to 70		-10 to 60		-10 to 60	
Storage temp. [°C]	-40 to 85									
Thermal stab. (optionally)	Optionally by TEC or heated.									
Polarisation ratio	>50:1									
Output power stability	<0.5%RMS									
Reverse voltage prot. circuit	Built in									
Op. voltage for cw operation	5±0,5 Vdc. Available on 24V DC and/or with external Regulator along the cable									
Expected lifetime	>10.000 Hours									
Connection	200mm Flying leads / 200mm cable+standard connector / 3-pin DIN connector (only φ15mm)									
Laser product class	According with the radiant flux and EN-60825 classification, duly identified by labels.									
Housing	C type : Diam.14 x 45mm length / Nickel and Brass / FC port Diam 15 x 45mm also available									

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

FIBER PATCH-CORDS Types (to add at module p.n.)	-004S	-04SP	-050S
Operating wavelength for single mode transmission	600-800	620-820	Multimode
Polarization maintaining	No	Yes	No
Coupling efficiency (% of Po), typical	30-50%	30-50%	40-60%
Connector repeatability, typical	85%	85%	90%
Mode field diameter [µm]	4.3 @ 633 nm 4.6 @ 680 nm	4.5	50
Numerical aperture, typical	0,12	0.12	0.22
Cladding [µm]	125±2	125	150±2
Jacket [µm] / Protec slip [mm]	250 / 3	250 / 3	250 / 3
Min. bend diameter [mm]	25	25	31
Connector type, typical	FC-PC		
Length, typical	2m		
Armored Ø 5mm	Under request		

FOCUSABLE COLLIMATORS HEADS FC CONNECTORIZED							
OPTICS HEADS	Focal Length	Max. CA Effective. Do[x]	Lens type	N.A. max	Eff Typ	Focusing Range, typ. [mm]	Housing [mm] dimensions
-TxA10	10mm @ 670nm	from 2 to 6 mm	Glass aspheric lens	0.33	60 %	60±40 to infinite	diam.14x55
-TxA15	15mm @ 670nm	6 mm	Glass aspheric lens	0,30	50 %	250±50 to infinite	diam.14x55
-TxG25	25 mm @ 635 nm	6 mm	N/A	N/A	90%	500±50 to infinite	diam.14x60
TLxx	Full angle aperture: 5,10,20,50 & 99°		Glass asph.+ cylind.	-	50 %	60±40 to infinite	diam.14x60



Ordering Information:



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