

Product Division

LDM Laser Diode Modules

Product

U Series

Description

Mini LDM, Small package

Main Features

- Small packaged
- Compact design
- Low bore-sight
- Low operation current
- Wide range of wavelengths available

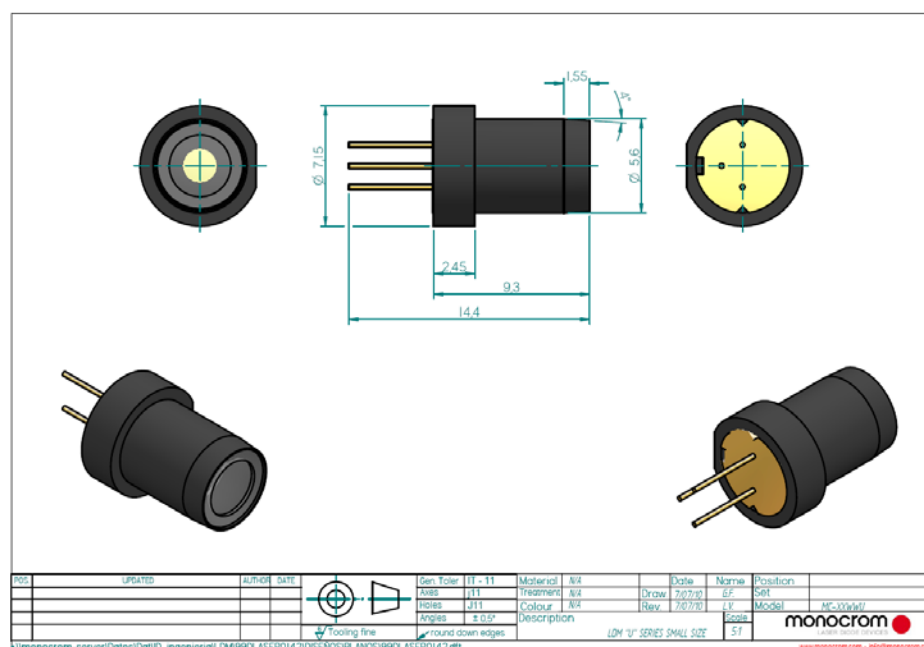
Some Applications

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

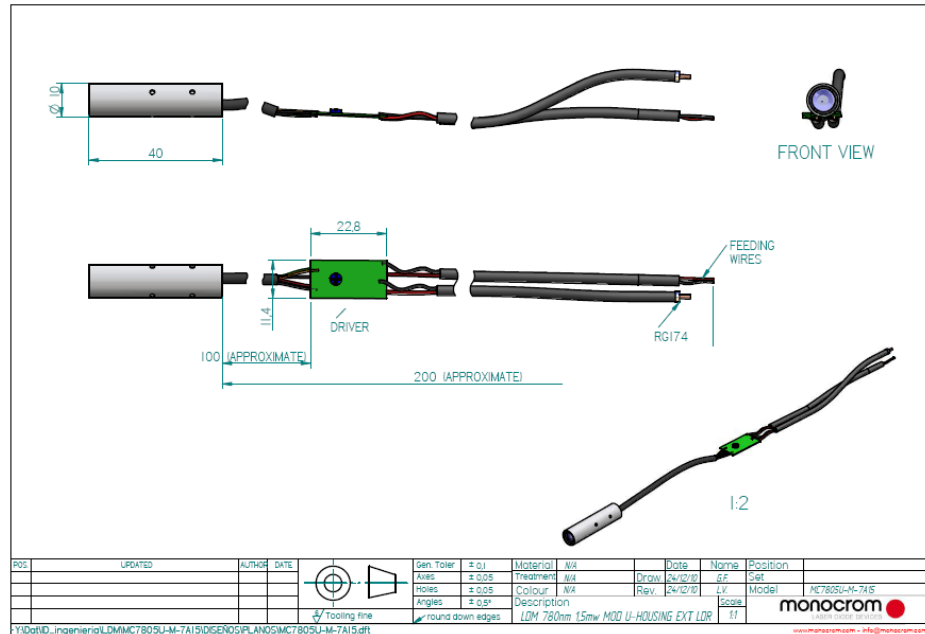
Picture



Outline



Example of Ø 7.5 x 15mm



Example of Ø 10 x 40mm

FOCUSABLE LASER DIODE MODULES

U SERIES

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

GENERAL SPECIFICATIONS FOR STANDARD DIODE LASER MODULES							
Wavelength (20°C) [nm]	635±5			660-10/+5			675±5
Model	6305U-A	6304U-A	6304UX2-L	6605U-A	6604U-L	6604UX2-L	U6707-L
Beam Shape	Dot	Line	Cross	Dot	Line	Cross	Dot
Po.max [mW] after lens	<5	4	4	<5	<4	<4	3
Op. current [mA] (at max.Po@25°C)	60			50			50
Operating temperature [°C]	-10 to 50			-10 to 70			-10 to 60
Storage temperature	-40 to 85 °C						
Thermal drift	0.27 nm / °C						
Bore sight, typical	< 10 mrd						
Reverse voltage protect	Built in						
Op. voltage for cw	5±0,5 Vdc Driver along the cable						
Expected lifetime	>10.000 Hours						
Wires Length	200mm Flying leads (red:+/black:-) or 200mm cable+standard connector						
Laser product class (EN-60825)	3R						
Housing	U type : Black anodizing Al Ø10(+0/-0,05) x length 50 mm Available also: Ø7.5mmx15mm and Ø8mmx10mm (With external driver)						
Lens	Acrylic aspherical diffractive thermal compensated						

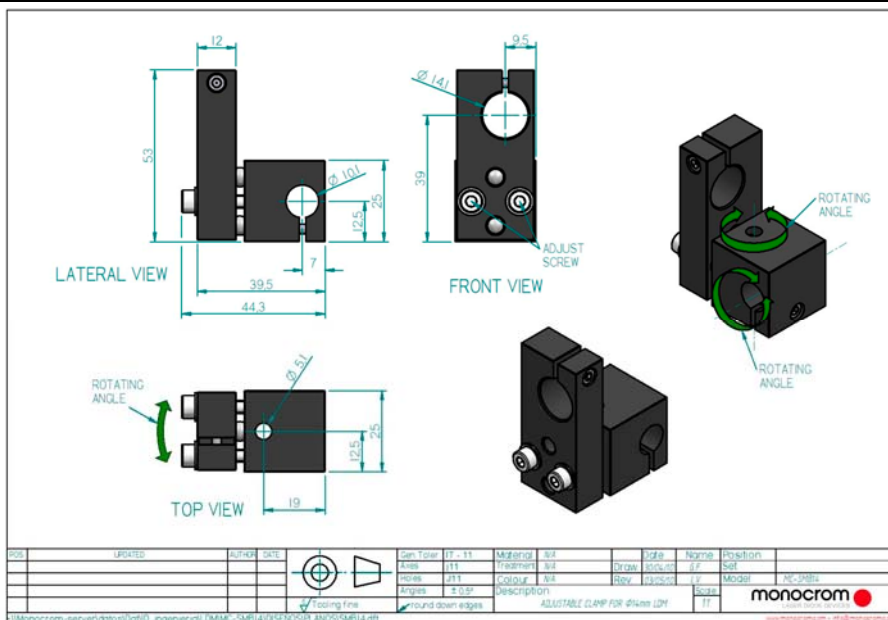
Conditions @ 25°C while not specified. Specifications could change depending on LD used.

Lower power or pre-focusing at factory on request

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 for line tracing				
Clear aperture (A) [mm]	2	3	4	5	6	2	3	4	5	6	2	3	4	6	6	4	6	4
Relative efficiency [%] to Po.max.	20	30	70	80	100	10	15	20	40	60	10	20	30	70	70	60	70	60
Typ. Divergence [mrd] (collimated beam)	0,5					0,3					0,5			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
Main feature	High transmission					Low divergence					Low divergence/ Low price			Minimum line bowing				

ACCESSORIES: (optionally)

MC-SMB14 with A14D11 adaptor ring to Ø11mm



PSLDM5

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



Ordering Information:



800 Village Walk #316
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Ph: 203-401-8093

Email orders to: sales@xsoptix.com
Fax orders to: 800-878-7282