

Product Division



LDM

Laser Diode Modules

Product

Y- Series

Description

LDM, Two focusable 180° outputs. Rechargeable power battery

Main Features

- Different output options
- Hard design
- Different operation mode.
- Wide range of wavelengths available
- Different output options available

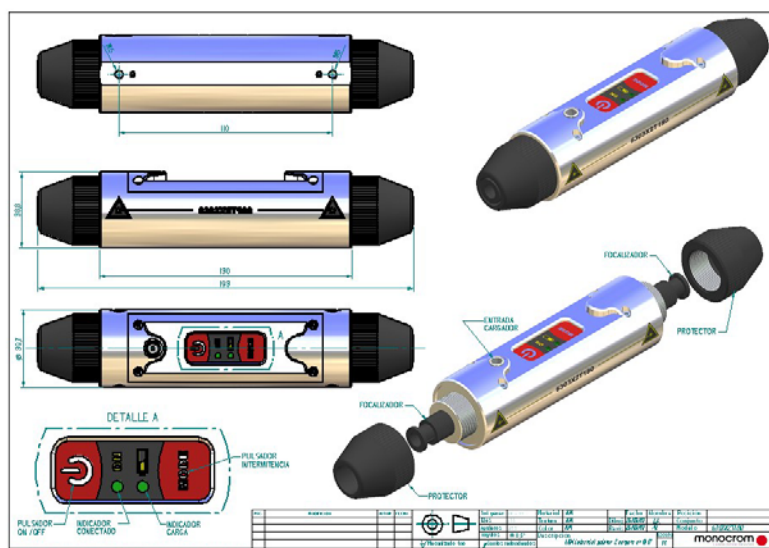
Some Applications

- Automatics & Robotics
- Guidance
- Align
- Automotive align

Picture



Outline



TWO 180° OUPUT LASER DIODE MODULES

Y SERIES

GENERAL SPECIFICATIONS FOR 6303X2T180 DIODE LASER MODULES

Model	6303X2T180
Wavelength (20°C) [nm]	635±5
Po.typ [mW] / output	<1
Op. current [mA] (at Po@25°C)	100
Operating temperature [°C]	-10 to 50
Storage temperature	-40 to 85 °C
Clear aperture	6 mm
Polarisation ratio	>50:1
Output power stability	0.4%RMS
Battery Charge time (Hours)	6
Autonomy in operation (Hours)	20
Autonomy in stand by (Hours)	500
A output (Focalization range)	200mm - ∞
B output (Focalization range)	150mm - ∞
Expected lifetime	>10.000 Hours
Laser product class (EN-60825 / IEC-825)	2
Housing	Y type : Al Ø38.8(+0/-0,1) x length 193 (±0,5)mm
Output options	Dot, Line, FC coupled

OPTICS OPTIONS (to add to the LDM type selected –LLL). OTHERS ON REQUEST																						
Lens	A10						A15						S35					L05	L10	L20	L50	L99
Type	Glass aspheric						Glass aspheric						Achromat					Glass cylindrical for line tracing				
Clear aperture (A) [mm]	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	6	6	4	6	4
Relative efficiency [%] to Po.max.	20	30	70	80	90	100	10	15	20	40	50	60	5	10	20	30	50	70	70	60	70	70
Typ. Divergence [mrd]	0,5						0,3						0,2					0,3	0,4	0,6	0,7	0,8
Fan angle [°] (full angle)	-						-						-					5	10	20	50	100
Focal length [mm]	10						15						35					50	40	10	8	5
Focusable range [mm]	70±30 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						High beam quality						Low divergence					No line bowing				

POWER REGULATION (OPTIONAL) / 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	
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	0W	
Po without modulation input (coaxial cable unplugged)	>50% of PoMax	

Ordering Information:



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