



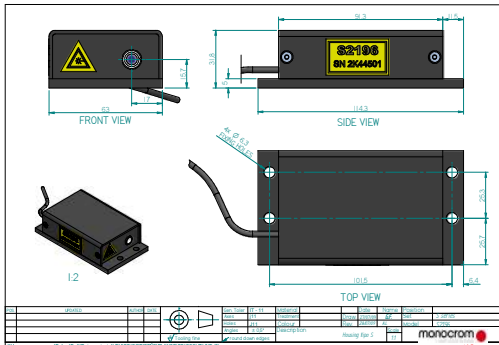
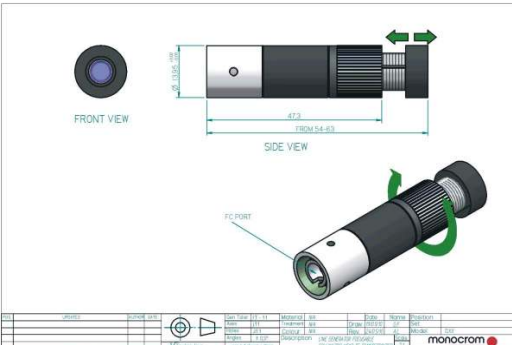


Product Division	 LDM Laser Diode Modules
Product	SLD-Series
Description	Super Luminescence Diode Module, Modulatable or CW
Main Features	<ul style="list-style-type: none"> ● High Radiant flux density ● Low Coherency ● High quality lens and excellent beam performance. ● Compact design. ● Low bore-sight. ● CW and modulatable
Some Applications	<ul style="list-style-type: none"> ● Eye Movement Tracking ● Bio-medics Instruments. ● Analytical Instruments. ● Measuring Instruments. ● Optical fiber gyroscopes. ● Optical Communication. ● Automatics & Robotics. ● Lighting ● Imaging
Housings	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>(without driver)</p> </div> <div style="text-align: center;">  <p>T or M Type: Black anodizing Al Ø14(+0/-0,1) x length 90+2mm</p> </div> <div style="text-align: center;">  <p>S type Black anodizing Al 63 x 32 x 115mm</p> </div> </div>
Outline	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  <p>(Collimator optional)</p> </div> </div>

SLED-SERIES

GENERAL SPECIFICATIONS. OTHERS UNDER REQUEST

Model:	SLD8305	SLD8305M/T/S	SLD9020M/T/S
Wavelength (@20°C) [nm] ±20	830	830	905
Po.max [mW]	2.5mW	2.5mW ⁽¹⁾	10 mW ⁽¹⁾
Operation modes	CW	CW and Modulatable	Modulatable and CW
Op. current typical [mA] at max.Po@25°C	< 185mA	<185mA	<400mA
Op. temperature [°C]		-10 to 70	
Storage temperature [°C]		-10 to 80	-20 to 80
Clear aperture		From 2 to 6 mm (to be specified at order)	
Divergence min.		<1 mrd (With A15 lens)	
Output power stability ⁽²⁾		<0.5%RMS	
Reverse voltage protection circuit		Built in	
Bore sight	< 1 mrad		< 10 mrad
Feeding voltage		5±5% Vdc	
Wires/Connector		200mm Flying leads /Standard D-Sub	
Expected lifetime		>10.000 Hours	
Laser product class	According with the radiant flux and EN-60825 classification, duly identified by labels.		

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

- (1) Power with 2,5V-CW input signal at modulation wire
(2) From a stable input signal

POWER REGULATION / MODULATION MODES	ANALOGUE	DIGITAL
	0.5 to 2V (For Power from 0 to PoMax)	TTL (for Power = [0 , Po Max])
Input signal, Vmod, typical		
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

Conditions @ 25°C while not specified. Specifications could change depending on SLED 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)	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]	20 to infinite		200 to infinite			150 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									

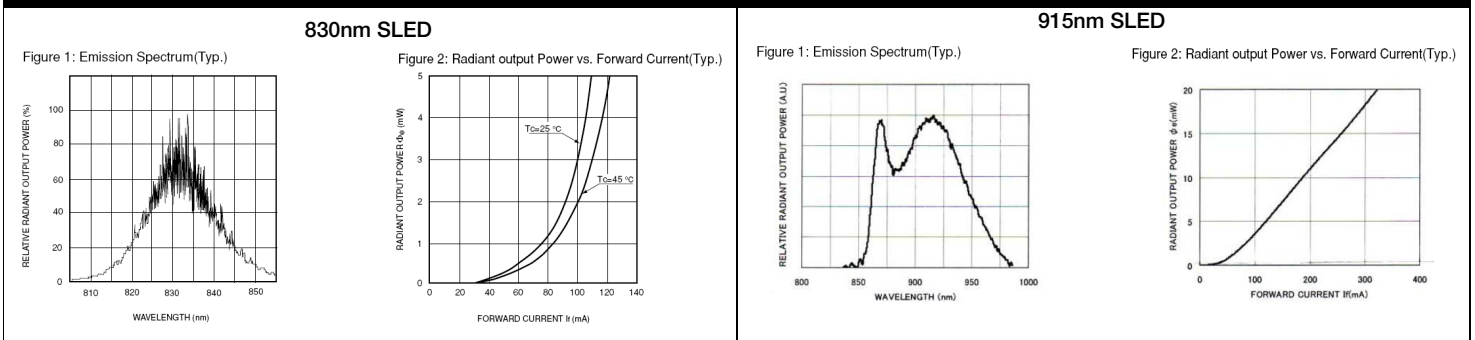
Also **fiber output** is available on request (see below). Lower power or pre-focusing at factory on request.

FOCUSABLE COLLIMATORS HEADS FC CONNECTORIZED

OPTICS HEADS	Focal Length	Max. CA Effective. Do[x]	Lens type	N.A. max	Eff Typ	Focusing range [mm]	Housing [mm] dimensions
-TxA10	10mm @ 670nm	from 2 to 6 mm	Glass aspheric lens	0.33	60 %	50 to infinite	diam.14x55
-TxA15	15mm @ 670nm	6 mm	Glass aspheric lens	0,30	50 %	200 to infinite	diam.14x55
TLxx	Full angle aperture: 5,10,20,50 & 99°		Glass asph.+ cylind.	-	50 %	50 to infinite	diam.14x60



Typical SLED characteristics



Ordering Information:



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