

SLD Light Source Module

Part Number: IPSDS1203-××××

1. Configuration

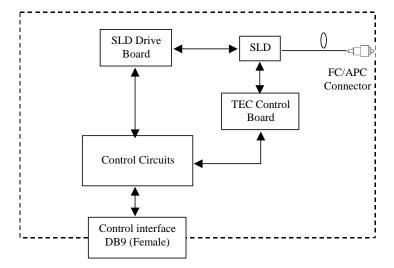


Figure 1 Configuration of IPSDS1203-×××× SLD light source module

2. Absolute Maximum Ratings

Parameter	Min.	Max.	Unit
Power Supply Voltage	4.5	5.5	V
Storage Temperature	-40	+85	°C
Humidity	10	95	%

3. Recommended Operational Condition

Parameter	Min.	Тур.	Max.	Unit
Power Supply Voltage	4.75	5.00	5.25	V
Ripple/spike noise of Power Supply Voltage	-	50	120	mV _{p-p}
Operating Temperature	15	25	50	°C
Operating Humidity	30	60	90	%

All information contained herein is believed to be accurate and is subject to change without notification. No responsibility is assumed. Please contact InPhenix for more information. InPhenix and the InPhenix logo are trademarks of InPhenix Inc. All rights are reserved.

4. Optical characteristics

Iterreg	Specifications			T I	Natas	
Items	Min.	Тур.	Max.	Unit	Notes	
Center Wavelength	1260	1280	1300	nm	@ 25°C and CW.	
@ -3dB					Connectors are included.	
3dB Optical Bandwidth	90	95	-	nm		
Optical Output Power	10	-	-	mW		
ASE Ripple @ 0.1nm	-	0.5	-	dB		
Optical Power Stability	-	-	±0.1	dB	Stability test of P _{max} after	
(8hr)					0.5 hour warm up at 25°C	
Optical Output Type	FC adaptor or pigtail fiber		-	As shown in Figure 2 of		
	out			Section 7 in detail		
Fiber Connector	FC or SC type		-			
Fiber Type	Corning SM-28 or		-			
	equivalent					
Fiber Jacket	900µm loose tube			-		
Fiber Length	0.5	-	-	m	If pigtail fiber out is	
					selected.	

5. Electrical characteristics

Item	Specifications			Units	Natas	
Item	Min.	Тур.	Max.	Units	Notes	
Power supply current	-	1.0	2.0	A	Pmax CW optical output	
Power consumption	-	5.0	10.0	W		
Range of V _{SET}	0.0	-	2.5	V		
Input impedance for V _{SET}	> 20k			Ω		
VH for TTL input/output	3.80	-	-	V	For SLD Enable and Alarm	
VL for TTL input/output	-	-	1.02	V		
Optical Power Control	SLD Current Adjustment			-		
	via V_{SET} as shown in					
	Section 6 in detail					
Connector Type	DB9 Connector, Female			-	See section 6 for Pin	
					Allocation in detail	

6. Pin Assignment Specifications

DB9 Connector Pin Allocation

Pin #	Function	In/Out	Туре	Description
1	+5VDC	IN	Analog (5.0V)	Power Supply, $\leq 2A$.
2	NC	NA	NA	Reserved
3	SLD Enable	IN	TTL	SLD turn on control. TTL high turns on SLD and TTL low turns off SLD. See Figure 3 in detail.
4	Alarm	OUT	TTL	TEC operation status. TTL high indicates that TEC failure has activated and TTL low indicates that TEC operation is normal. See Figure 3 in detail.
5	V _{SET}	IN	Analog (0~2.5V)	Input voltage to set SLD current. The range of 0.0-2.5V for V_{SET} corresponds to $0 \sim I_{max}$ mA of SLD operation current.
6	GND	IN	GND	Power supply and signals GND.
7	NC	NA	NA	Reserved
8	NC	NA	NA	Reserved
9	NC	NA	NA	Reserved

All information contained herein is believed to be accurate and is subject to change without notification. No responsibility is assumed. Please contact InPhenix for more information. InPhenix and the InPhenix logo are trademarks of InPhenix Inc. All rights are reserved.

7. Mechanical Specifications

43. Drawing and dimensions (unit: mm): 100mm(L)×80mm(W)×26mm(H)

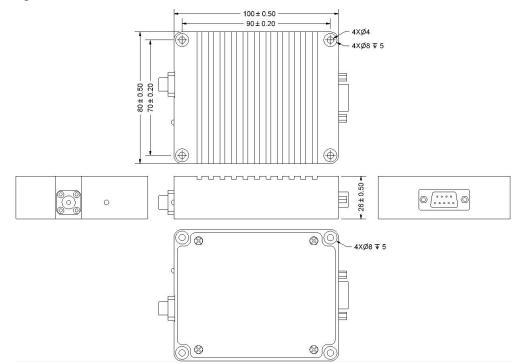
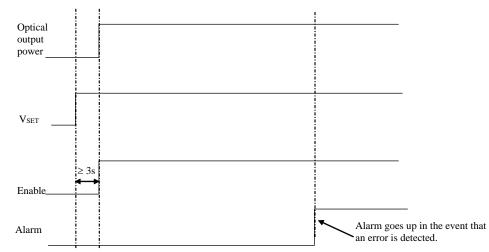


Figure 2 Mechanical drawing of module box (FC/APC connector with FC adaptor)

2. Module case is isolated from any electrical connection.

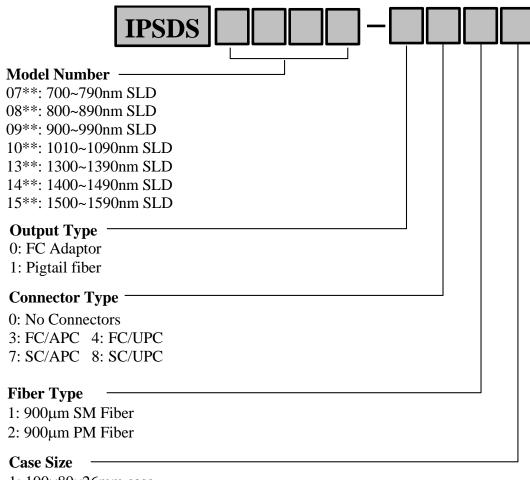


8. Signals Characteristics

Figure 3 Startup and operational timing of the module

All information contained herein is believed to be accurate and is subject to change without notification. No responsibility is assumed. Please contact InPhenix for more information. InPhenix and the InPhenix logo are trademarks of InPhenix Inc. All rights are reserved.

9. Part Numbering Structure of SLD light source module



1: 100×80×26mm case

2: 130×100×26mm case

3: 130×115×36mm case

Example: IPSDS0701-1011: 700nm-type SLD light source module in 100×80×26mm case with pigtail fiber output, 900µm SM fiber without connector

Corporate Office

250 North Mines Rd Livermore, CA 94551 Tel: 925.606.8809 Fax: 925.606.8810 www.inphenix.com sales@inphenix.com