Broadband Light Source Module

1. Configuration

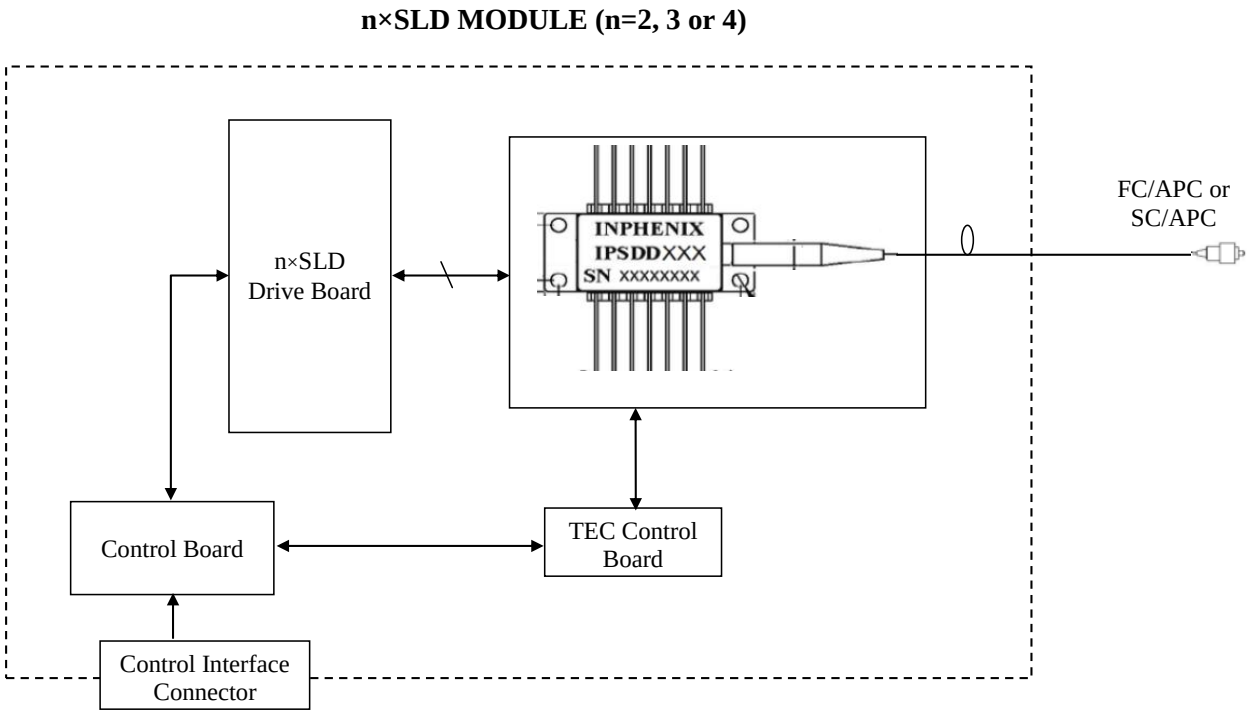


Figure 1 Configuration of n×SLD module

2. Absolute Maximum Ratings

Parameter	Min.	Max.	Unit
Power Supply Voltage	10	15	V
Storage Temperature	-40	+85	°C
Humidity	10	95	%

3. Recommended Operational Condition

Parameter	Min.	Typ.	Max.	Unit
Power Supply Voltage	10	12	15	V
Ripple/spike noise of Power Supply Voltage	-	50	120	mV_{p-p}
Operating Temperature	10	25	60	°C
Operating Humidity	30	60	90	%

4. Optical Characteristics

Item		Specifications					
Part Number	Option	Optical Power (CW)/Min.	3 dB Optical Bandwidth /Min.	Central Wavelength	Wavelength Range @-10dB	Spectrum Flatness (DIP)/Typ.	ASE Ripple @0.1nm /Typ.
		mW	nm	nm	nm	dB	%
IPSDW0826	I	7.5	85	820±10	770~880	2.0	3
IPSDW0826	II	12	87.5	870±10	805~930	2.0	3
IPSDW0836	III	12	135	845±10	770~930	2.0	3
IPSDW0836	IV	12	135	890±10	805~980	2.0	3
IPSDW0846	V	12	160	830±10	735~930	2.0	3
IPSDW0846	VI	12	180	860±10	770~980	2.0	3
Notes		@25°C and Connectors are included.					
Fiber Connector		FC/APC or SC/APC				As shown in Figure 3 of Section 8 in detail	
Fiber Type		Corning HI780 or equivalent					
Fiber Jacket		900um loose tube					
Fiber Length		50~100cm					

5. Electrical Characteristics

Item	Specifications			Unit	Notes
	Min.	Typ.	Max.		
Power supply current	-	1.0	3.0	A	@25°C, P_{max} CW optical output power.
Power consumption	-	12.0	36.0	W	
VH for TTL input/output	3.80	-	-	V	For Modulation.
VL for TTL input/output	-	-	1.02	V	

6. Electronical Interface

Power Port: Connector Type: MOLEX 43045-0401 Header (male)

Control Port: Connector Type: MOLEX "Milli-Grid", 87833-1420 Header (male)

1,2,6,7	Reserved	NA
3	Modulation GND	IN
4	Modulation (Optional)	IN
5	+5 VDC	OUT
8	SLD Enable	IN
9	Output Status	OUT
10,12,14	Logic GND	IN/OUT
11	Ready Status	OUT
13	Alarm Status	OUT

Signal characteristics shall be defined in detail per customer requirements.

7. Typical Spectra

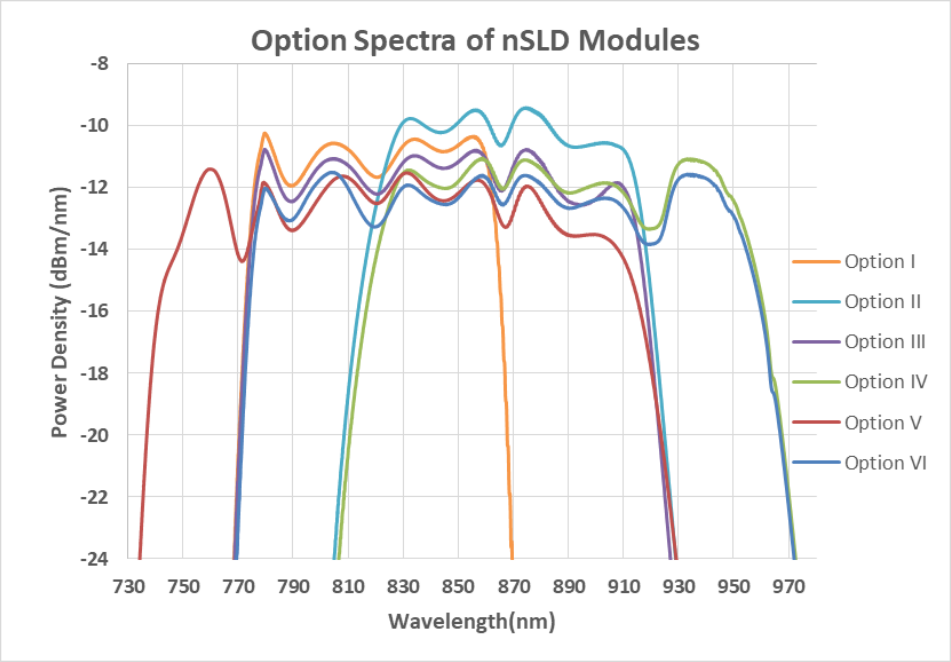
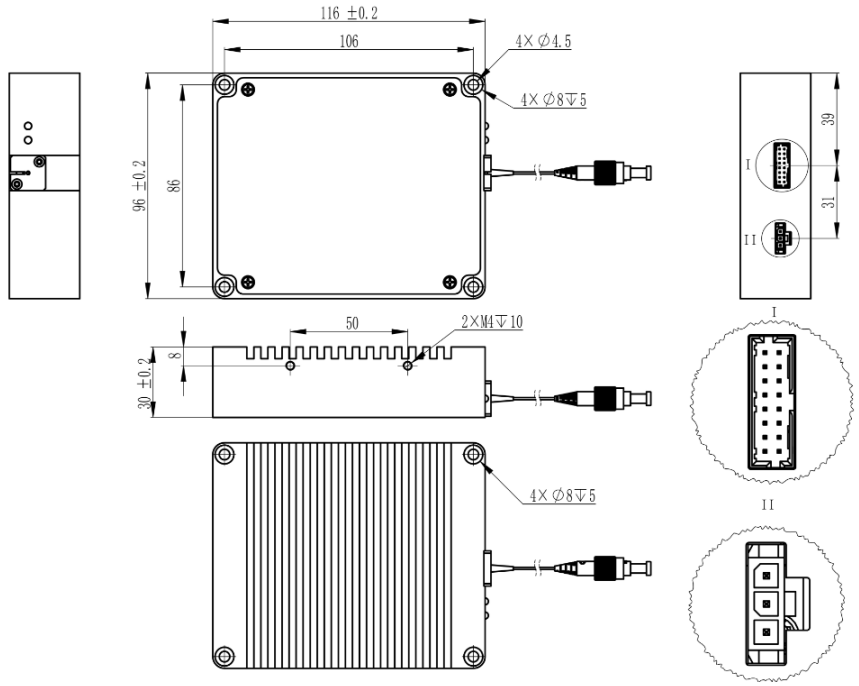


Figure 2 Typical Spectra of n×SLD modules

8. Mechanical Specifications

1) Drawing and dimensions (unit: mm)

Size: 116mm (L) × 96mm (W) × 30mm (H)



Size: 170mm (L) × 110mm (W) × 35mm (H)

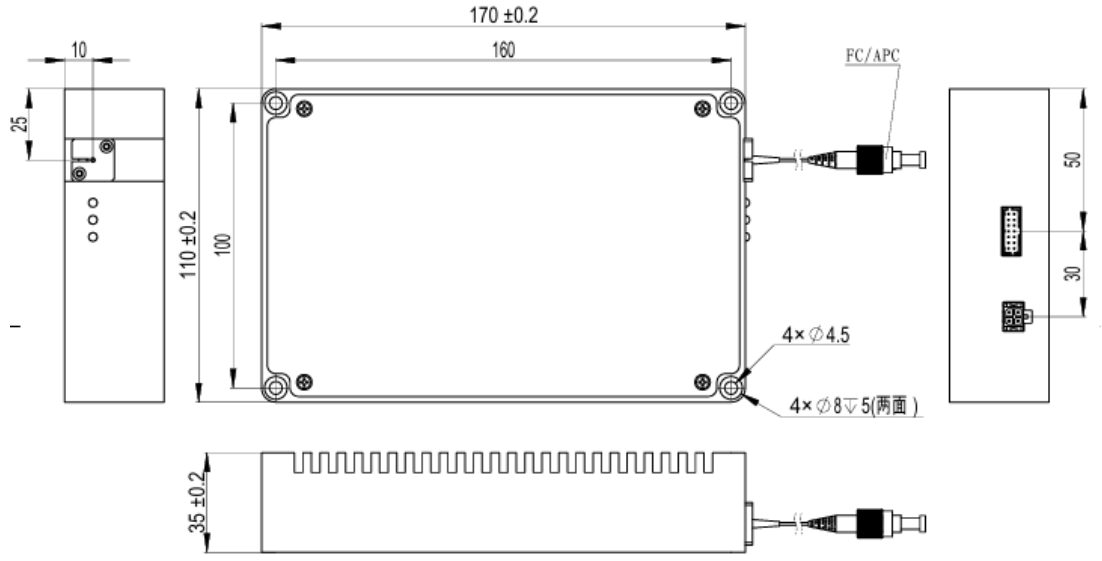
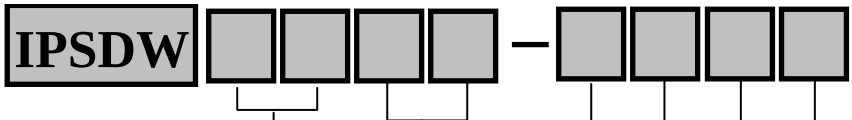


Figure 3 Typical mechanical drawing of n×SLD Modules.

2) Module case is isolated from any electrical connection.

9. Part Numbering Structure of wideband SLD light source module



Model Number
07: 700~790nm SLD
08: 800~890nm SLD

n×SLD
2×: 2×SLD
3×: 3×SLD
4×: 4×SLD

Output Type
0: FC Adaptor
1: Pigtail fiber

Connector Type
0: No Connectors
3: FC/APC 4: FC/UPC
7: SC/APC 8: SC/UPC

Fiber Type
1: 900μm SM Fiber
2: 900μm PM Fiber

Case Size
D: 116mm× 96mm×30mm case
3: 170mm×110mm×35mm case

Example: IPSDW0846-1313: 800nm-type 4×SLD module in 170×110×35mm case with 900μm SM fiber pigtail output and FC/APC connector.

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