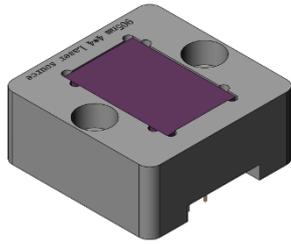


905nm 4*4-120W Uncooled Multimode Laser Diode Module

TY-905-4*4-120W-120-60-PLD-TFS



SkyEra delivers TY-905-4*4-120W-120-60-PLD-TFS Multimode semiconductor laser diode based on EEL chip array module, built-in fast and slow axis collimation and spot homogenization technology, compact design, stable output power, high power, high efficiency, convenient packaging, compact size products, for lighting and radar manufacturers to provide solutions.

The performance and aging tests have been performed upon the production line to guarantee reliable, stable and long lifetime of products.

To provide customers with high-quality, high-cost performance products is the company's goal.

Key Parameters:

- Based on single fire spot array module
- Single point high output peak power 120W
- 4 X 4-PLD independent control
- FOV:120°X 60°
- Parallel weld sealed package
- Standard central wavelength 905nm
- RoHS compliance
- High Stability
- High Reliability

Application:

- Lighting
- Area Light

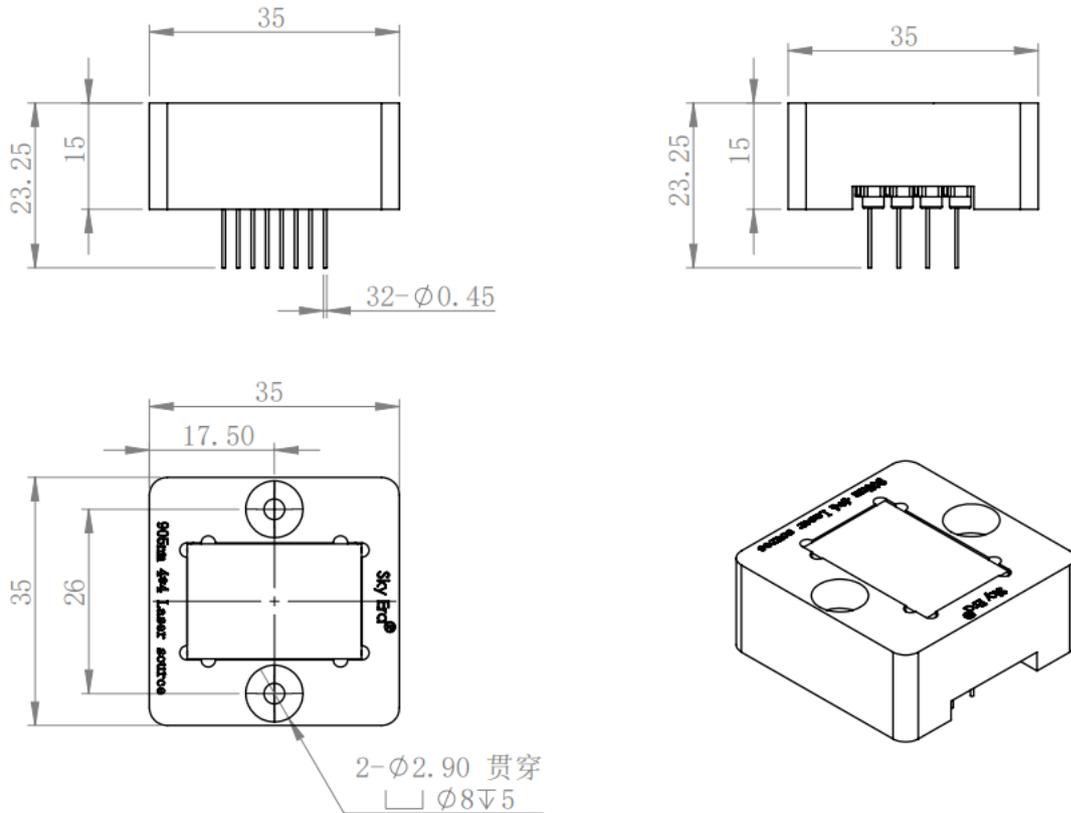
Specification:

Functional parameters are tested on condition that the heat sink temperature is 25 degree, contact resistance of the component and the heat sink is smaller than 1CM² K/W.

Parameter	Min	Typ	Max	Unit	Conditions
Output Power (Peak)	100	120	-	W	16*120W
Centre Wavelength (pulse)	900	905	910	nm	
Spectral Width (FWHM)	-	4	6	nm	
Laser path	-	16	-	n	
Threshold Current (pulse)	-	1.5	2	A	
Operating Current (pulse)	-	35	40	A	
Operating Voltage (pulse)	-	6	9	V	
photoelectric Conversion Efficiency	-	60	-	%	
Duty Cycle	-	0.1	-	%	
Pulse Width	-	50	-	ns	
Vertical divergence Angle	-	60	-	°	
Horizontal divergence Angle	-	120	-	°	
Energy Density@150M	-	40	-	nW/mm ²	
Irradiation Distance	150	-	-	M	
Length	-	35	-	mm	
Width	-	35	-	mm	
Height	-	23	-	mm	
Wavelength shift vs. Temperature	-	0.3	-	nm/°C	
Storage Temperature	-40	25	110	°C	Non-Condensing
Operating Temperature	-40	25	105	°C	

2. Dimension Diagram

Unit:MM



3. Instructions

- Avoid eyes or skin exposure to direct or scattered radiation;
- ESD protection is required for transportation, storage and operation; short-circuit protection between pins is required for transportation and storage.
- Please connect pins by solder when operating current is over 6A; solder point should be close to the root of pins with a max soldering temperature at 260°C and a duration less than 10 seconds ;
- Drive constant current power supply by laser and avoid surge while working;
- Operate under rated current and rated power;
- Good heat dissipation is required;
- Operating temperature is -40°C~+105°C;
- Storage temperature is -40°C~+110°C.

