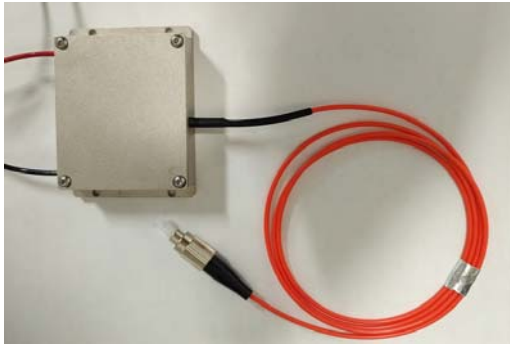


30W 9XXnm Uncooled Fiber Bundled Laser Diode Module

TY-9XX+/-10NM-30.0W-25C-0.22NA-KB



SkyEra delivers low cost diode laser is bundled from single emitter with less than 280um fiber core diameter, seamless connection with 400um fiber, all of these leads to lower cost and higher reliability. Specialty fiber is optional for different market in order to ensure uniform energy distribution of output beam. Aiming beam and high precision constant-current driver is optional to meet customer demand. 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.

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 1CM²K/W.

Parameter	Min	Typ	Max	Unit	Conditions
Output Power	-	30	-	W	
Centre Wavelength	905 930 965 805	915 940 975 808	925 950 985 811	nm	808 18W
Spectral Width	-	3.5	-	nm	
Threshold Current	-	0.6	-	A	
Operating Current	-	11.5	-	A	
Operating Voltage	-	5.3	-	V	
Convention Efficiency	-	47	-	%	
Wavelength Turning vs. Temperature	-	0.3	-	nm/°C	
Slop Efficiency	-	2.8	-	W/A	
Storage Temperature	-30	-	70	°C	Non-Condensing
Operating Temperature	15	-	55	°C	
Fiber Bend Radius	30	-	-	mm	
Numeric Aperture	-	0.22	-	-	
Fiber Length	0.9	-	-	M	
Protection Tube	-	0.9	-	mm	
Core Diameter	-	280	-	μm	3*125μm Combination

Key Parameters:

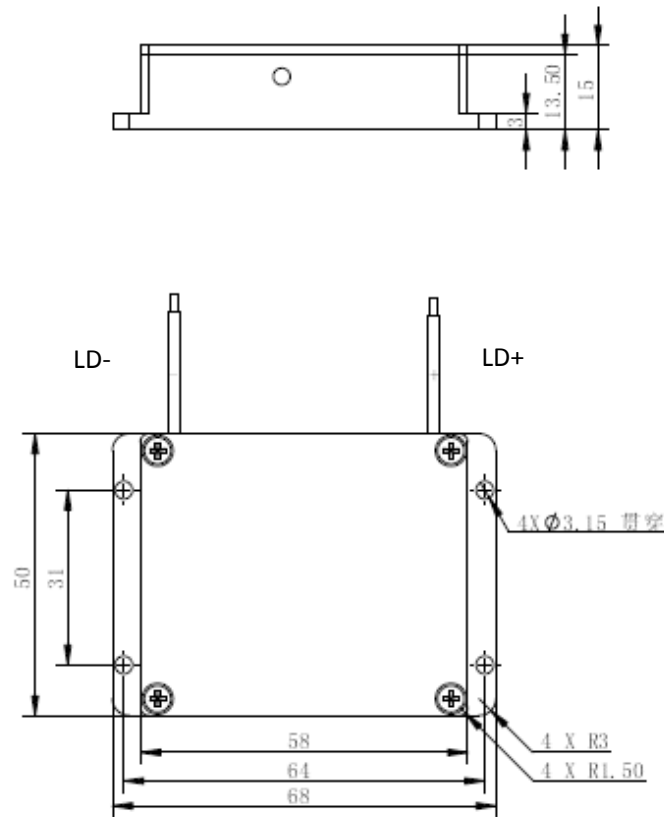
- Based on single emitter combination laser module
- High output power 30W
- High stability
- 0.22NA 280um fiber core with SMA905
- Standard central wavelength 915nm/940nm/975nm
- 400/440um specialty fiber is optional
- RoHS compliance

Application:

- Lighting
- Welding

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 15°C~55°C;
- Storage temperature is -30°C~+70°C.

