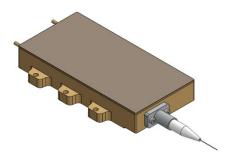
Data Sheet



TD13 941nm 220W Uncooled Multimode Laser Diode Module

TY-TD-941+/-03NM-220.0W-25C-1064-0.22NA



SkyEra delivers TY-TD-941+/-03NM-220.0W-25C-1064-0.22NA diode lasers employing professional coupling technology, that enjoy multiple advantages, e.g., compact design, stable output power, high power, high efficiency and convenient packaging. These laser diode modules can provide solutions for fiber laser applications and direct suppliers.

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 $1CM^2$ K/W.

Parameter	Min	Тур	Max	Unit	Conditions
Output Power	-	220	-	W	
Centre Wavelength	-	-	-	nm	
TD13	938	941	944		
Spectral Width (FWHM)	-	4.5	6	nm	
Threshold Current	-	1.5	2.0	А	
Operating Current	-	-	22.0	А	
Operating Voltage	-	21.0	22.0	V	
Conversion Efficiency	-	50	-	%	
95% Power	-	0.18	-	NA	
Wavelength shift vs. Temperature	-	0.35	-	nm/℃	
Slop Efficiency	-	10.0	-	W/A	
Storage Temperature	-30	25	70	°C	Non-Condensing
Operating Temperature	15	25	55	°C	
Fiber Bend Radius	50.0	-	-	mm	
Core Diameter	-	135	-	μm	
1064ISO	-	30	-	dB	1050-1150nm
Numeric Aperture	0.2	0.22	0.24	-	
Fiber length	1.0	1.5	-	М	
Protection Tube	0.9	-	1.5	mm	
Fiber Connector	-	СО	-	-	

Key Parameters:

- Based on single fire spot laser module
- High output power 220W
- High stability
- 0.22NA 135µm core multimode fiber
- Parallel weld 2-Pin sealed package
- Standard central wavelength 941nm
- RoHS compliance

Application:

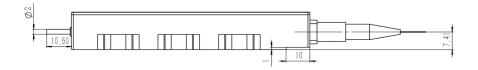
- Medical
- Printing
- pump source
- Material processing

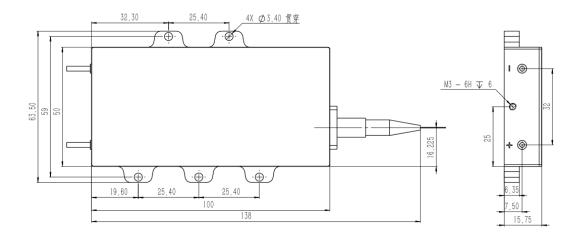
Tel: 0511-86738588 Fax: 0511-86739955 Website: www.skyeralaser.com



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;
- Please test with coated fiber in order to avoid chip damage by reducing back reflection;

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- Operating temperature is 15°C~55°C;
- Storage temperature is $-30^{\circ}\text{C}^{-}+70^{\circ}\text{C}$.







