

915nm 70W Uncooled Multimode Laser Diode Module

TY-915+/-10NM-70.0W-25C-0.22NA



SkyEra delivers 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 $1\text{CM}^2 \text{ K/W}$.

Key Parameters:

- Based on single fire spot laser module
- High output power 70W
- High stability
- 0.22NA 105 μm core multimode fiber
- Parallel weld 2-Pin sealed package
- Standard central wavelength 915nm
- RoHS compliance

Application:

- Medical
- Lighting
- pump source
- Material processing

Parameter	Min	Typ	Max	Unit	Conditions
Output Power	65	70	-	W	
Centre Wavelength	905	915	925	nm	HR@ 1050-1150>25dB, HR@ 1060-1100>30dB
Spectral Width	-	4.0	7.0	nm	
Threshold Current	-	0.6	0.9	A	
Operating Current	-	12.0	12.5	A	
Operating Voltage	-	11.8	14.0	V	
Convention Efficiency	-	45	-	%	
95% Power	-	0.18	-	NA	
Wavelength shift vs. Temperature	-	0.3	-	nm/ $^{\circ}\text{C}$	
Slop Efficiency	-	5.8	-	W/A	
Storage Temperature	-30	-	70	$^{\circ}\text{C}$	Non-Condensing
Operating Temperature	15	-	35	$^{\circ}\text{C}$	
Fiber Bend Radius	37.5	-	-	mm	
Buffer Diameter	-	250	-	μm	
Cladding Diameter	-	125	-	μm	
Core Diameter	-	105	-	μm	
Numeric Aperture	-	0.22	-	-	
Fiber length	0.9	-	-	mm	
Protection Tube	-	0.9	-	mm	
Fiber Connector	-	CO	-	-	

