

## T120W Series 793nm 100W 200um Uncooled Multimode Laser Diode Module

TY-T120W-793+/-03NM-100.0W-25C-0.22NA



SkyEra delivers TY-T120W-793+/-03NM-100.0W-25C-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.

### Key Parameters:

- Based on single fire spot laser module
- High output power 100W
- High stability
- 0.22NA 200µm core multimode fiber
- Parallel weld 2-Pin sealed package
- Standard central wavelength 793nm
- RoHS compliance

### Application:

- Medical
- Printing
- pump source
- Material processing

### 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<sup>2</sup> K/W.

Parameter	Min	Typ	Max	Unit	Conditions
Output Power	-	100	-	W	
Centre Wavelength	-	-	-	nm	
T120W	790	793	796		
Spectral Width (FWHM)	-	4.5	6	nm	
Threshold Current	-	1.5	2.0	A	
Operating Current	-	11.0	12.0	A	
Operating Voltage	-	23.0	26.0	V	
Convention Efficiency	-	40	-	%	
95% Power	-	0.18	-	NA	
Wavelength shift vs. Temperature	-	0.3	-	nm/°C	
Slop Efficiency	-	10.0	-	W/A	
Storage Temperature	-30	25	70	°C	Non-Condensing
Operating Temperature	15	25	55	°C	
Fiber Bend Radius	50	-	-	mm	
Core Diameter	197	200	203	µm	
1064ISO	-	30	-	dB	1900-2100nm
Numeric Aperture	0.2	0.22	0.24	-	
Fiber length	1.0	1.5	-	M	
Protection Tube	0.9	-	1.5	mm	
Fiber Connector	-	CO	-	-	

