

T90W Series 9XXnm 90W Uncooled Laser Diode Module with Red Aiming Beam

TY-T90W-0975+/-05NM-090.0W-25C-0.22NA



SkyEra delivers TY-T90W-0975+/-05NM-090.0W-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.

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 (CW)	80	90	-	W	
Output Power (QCW)	4.0	4.5	-	W	f:100HZ, Duty Cycle:5%
Centre Wavelength T90W	965	975	985	nm	
Spectral Width (FWHM)	-	4.5	6	nm	
Threshold Current	-	0.5	0.9	A	
Operating Current	-	12.0	13.0	A	
Operating Voltage	-	14.0	18.0	V	
Conversion Efficiency	-	48	-	%	
90% Power	-	0.18	-	NA	
Wavelength shift vs. Temperature	-	0.3	-	nm/°C	
Slop Efficiency	-	7.8	-	W/A	
Storage Temperature	-30	25	70	°C	Non-Condensing
Operating Temperature	15	25	55	°C	
Fiber Bend Radius	37.5	-	-	mm	
Core Diameter	102	105	108	µm	
Aiming Beam-Red-Voltage	-	2.5	2.8	V	
Aiming Beam-Red-Current	-	0.2	0.25	A	
Aiming Beam-Red-Power	-	2	-	mW	
Numeric Aperture	0.2	0.22	0.24	-	
Fiber length	0.9	1.5	-	M	
Protection Tube	0.9	-	1.5	mm	
Fiber Connector	-	CO	-	-	

Key Parameters:

- Based on single fire spot laser module
- High output power 90W
- High stability
- 0.22NA 105µm core multimode fiber
- Parallel weld 2-Pin sealed package
- Standard central wavelength 975nm
- RoHS compliance
- Red Aiming Beam

Application:

- Medical cosmetology
- Soldering
- Pump source

