

## 969nm 108W Uncooled Multimode Wavelength Stabilized Laser Diode Module

TY-969+/-01NM-108.0W-25C-105-0.22NA-T120



kyEra delivers TY-969+/-01NM-108.0W-25C-105-0.22NA-T120 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<sup>2</sup> K/W.

### Key Parameters:

- Based on single fire spot laser module
- High output power 108W
- High stability
- 0.22NA 105µm core multimode fiber
- Parallel weld 2-Pin sealed package
- Standard central wavelength 969nm
- Narrow linewidth
- RoHS compliance

### Application:

- Medical
- Lighting
- Pump source

Parameter	Min	Typ	Max	Unit	Conditions
Output Power (CW)	108	-	-	W	
Centre Wavelength	968	969	970	nm	HR@ 1050-1150>25dB, HR@ 1060-1100>30dB
Spectral Width (FWHM)	-	0.8	1.0	nm	0.5nm DPI
Threshold Current	-	0.7	1.0	A	
Operating Current	-	12.0	13.0	A	
Operating Voltage	-	21.5	24.0	V	
Convention Efficiency	-	40	-	%	
95% Power	-	0.18	-	NA	
Wavelength shift vs. Temperature	-	0.02	-	nm/°C	
Slop Efficiency	-	9.0	-	W/A	
Storage Temperature	-30	25	70	°C	Non-Condensing
Operating Temperature	20	25	30	°C	
Fiber Bend Radius	37.5	-	-	mm	
Buffer Diameter	-	250	-	µm	
Cladding Diameter	-	125	-	µm	
Core Diameter	102	105	108	µm	
Numeric Aperture	0.2	0.22	0.24	-	
Fiber length	0.9	-	-	M	
Protection Tube	0.9	-	1.5	mm	
Fiber Connector	-	CO	-	-	

