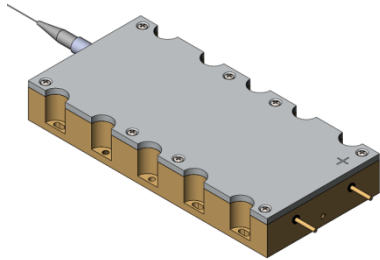


## ME30 Series 940nm 500W 400um Uncooled Multimode Laser Diode Module

TY-ME30-940+/-10NM-500.0W-25C-400-0.22NA



SkyEra delivers TY-ME30-940+/-10NM-500.0W-25C-400-0.22NA 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<sup>2</sup> K/W.

### Key Parameters:

- Based on single fire spot laser module
- High output power 500W
- High stability
- 0.22NA 400µm core Double-clad fiber
- Parallel weld 2-Pin sealed package
- Standard central wavelength 940nm
- RoHS compliance

### Application:

- Medical
- Direct application
- Pump source
- Material processing

Parameter	Min	Typ	Max	Unit	Conditions
Output Power (CW)	500	-	-	W	
Output Power (QCW)	50				f:100HZ, Duty Cycle:10%
Centre Wavelength ME30	930	940	950	nm	
Spectral Width (FWHM)	-	4.5	6	nm	
Threshold Current	-	1.0	2.0	A	
Operating Current	-	-	22.0	A	
Operating Voltage	-	46.8	50.0	V	
Conversion Efficiency	-	50	-	%	
95% Power	-	0.18	-	NA	
Wavelength shift vs. Temperature	-	0.3	-	nm/°C	
Slop Efficiency	-	25	-	W/A	
Storage Temperature	-30	25	70	°C	Non-Condensing
Operating Temperature	20	25	30	°C	
Fiber Bend Radius	75	-	-	mm	
Core Diameter	-	400	-	µm	
Cladding Diameter	-	440	-	µm	
Buffer Diameter	-	730	-	µm	
1064ISO	-	30	-	dB	1050-1150nm
Numeric Aperture	0.2	0.22	0.24	-	
Fiber length	1.0	-	-	M	
Protection Tube	0.9	-	1.5	mm	
Fiber Connector	-	CO	-	-	

