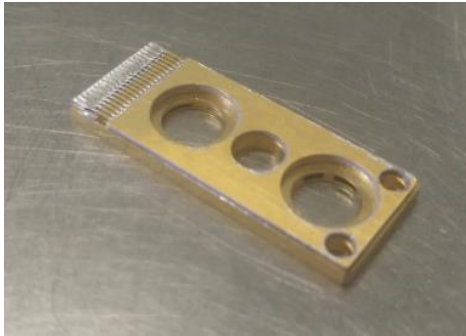


MCC Series 808nm 100W Single Bar Laser Diode Module

TY-808+/-10NM-100.0W-25C-MCC-CW



SkyEra delivers TY-808+/-10NM-100.0W-25C-MCC-CW micro-channel single Bar diode laser, employing AuSn bonding technology with multiple advantages of low smile, stable output power, high power, high efficiency, long lifetime, and high compatibility, and are widely applied in laser arrays and stacks.

The performance and aging tests have been performed upon the production line to ensure 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 at the temperature of the heat sink is 25 degree, contact resistance of the component and heat sink is less than 1 CM² K/W. Reduced lifetime if used above nominal operating conditions. A non-condensing environment is required for storage and operation below the ambient dew point.

Features:

- MCC Single Bar package
- High output power 100W(CW)
- High stability
- Long lifetime
- Low smile
- AuSn bonding
- Bar to bar space 2.1mm
- RoHS compliance

Application:

- Medical
- Industry
- Pumping

Parameters	Min	Typ	Max	Unit	Conditions
Output Power	-	100	-	W	
Center Wavelength	-	-	-	-	
TY-MCC	-	808±10	-	nm	
Spectral Width (FWHM)	-	4.0	-	nm	
Spectral Width (90%)	-	5.0	-	nm	
Fax-Axis Divergence(FWHM)	-	28	-	°	
Slow-Axis Divergence (FWHM)	-	8	-	°	
Pitch	-	200	-	μm	
Emitter Width	-	100	-	μm	
Emitter Number	-	47	-	-	
Wavelength Shift vs. Temperature	-	0.3	-	nm/°C	
Polarization Mode	-	TE	-	-	
Threshold Current	-	18.5	22	A	
Operating Current	-	11.0	120	A	
Operating Voltage	-	1.8	2.2	V	
Power Conversion Efficiency	-	60.0	-	%	
Slope Efficiency	-	1.10	-	W/A	
Storage Temperature	0	-	55	°C	
Operating Temperature	15	-	35	°C	
Recommended Heatsink Capacity	-	Water cooling	-	-	

