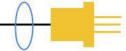


Lasermate Group, Inc.

The Friend of Lasers



915nm 200W Fiber Coupled Laser Diode for Fiber Laser Pumping Application

Part No. HBFC915P200W

Overview

The HBFC915P200W laser diode is a 915nm multimode fiber-coupled laser diode that offers high brightness with up to 200W of optical power output with a 200um core optical fiber. Compact yet reliable, it is in an air-cooled package with isolated electrical pins to ensure user-friendliness. The laser diode is the most cost-effective solution for pumped Yb-doped fiber lasers.

Features

- Single emitter-based laser diode module
- 915nm wavelength
- 200W output power
- 0.22NA, 200um fiber core diameter
- 52% E-O conversion efficiency

Applications

- Direct processing
- Fiber laser pumping
- Medical
- Analysis





Absolute Maximum Ratings						
Parameter	Symbol	Min.	Max.	Unit		
Output power	Po	200		W		
Forward current	I _{OP}		18	Α		
Reverse voltage	V _{rvs}		2	V		
Case operating temperature	Top	15	40	°C		
Storage temperature	T _{sta}	-20	70	°C		

Parameter	Symbol	Min.	Typ.	Max.	Unit
Output power	Po	200			W
Center wavelength	λο	908	918	928	nm
Spectral width (FWHM)	Δλ		6		nm
Spectral temperature shift	Δλ/ΔΤ		0.3		nm/°C
Electrical-to-optical efficiency	PE	46	52		%
Threshold current	Ith		0.9		Α
Operating current	lop		16.5	18	Α
Operating voltage	Vop		23	24	V
Slope efficiency	n		12.8		W/A

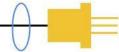
Fiber Specifications							
Parameter	Symbol	Min.	Тур.	Max.	Unit		
Fiber core diameter	D _{core}		200		um		
NA	NA		0.22				
Cladding diameter	D _{clad}		220		um		

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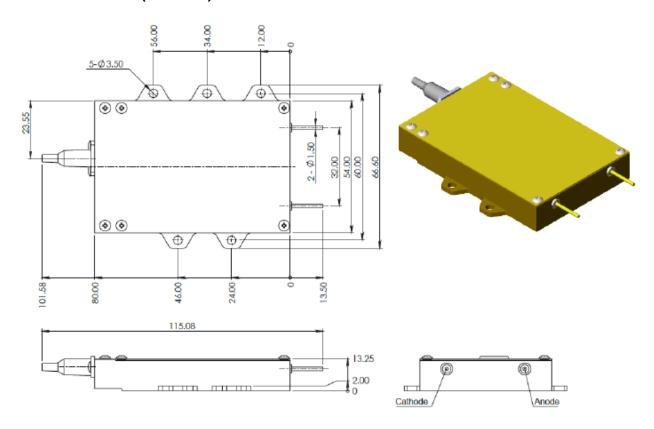


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Outline Dimensions (unit: mm)



Additional Notes

- The HBFC915P200W laser diodes are designated solely as OEM components for incorporation into the customer's end products. Therefore, it is the customer's responsibility to comply with the appropriate requirements of FDA 21CFR, section 1040.10 and 1040.11 for complete laser products. For the code of FDA regulations, please refer to FDA Performance Standards for Light-Emitting Products for detailed information.
- Avoid eye and skin exposure to direct radiation during operation.
- ESD precautions must be taken during storage, transportation and operation. For ESD precaution, short-circuit is required between pins during storage and transportation.
- Soldering point should be close to the root of the pins. Soldering temperature should be lower than 260°C and time shorter than 10 seconds. Use a transformer to reduce the secondary voltage and ground the tip of the soldering iron.
- Make sure that the fiber output end is properly cleaned before operation of laser. Follow safety protocols to avoid injury when handling and cutting the fiber.
- Specifications are subject to change without notice.

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