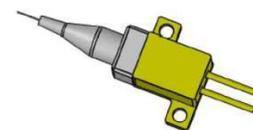




HBFC808PFC2W

808nm 2W Fiber Coupled Laser Diode, 62.5um Fiber, FC/PC



Overview

The HBFC808PFC2W laser diode is an 808nm multimode fiber-coupled laser diode that offers up to 2W of optical power output with a 62.5um core optical fiber. The laser diode is compact, reliable, and user-friendly air-cooled package with isolated electrical pins.

Features

- Single emitter-based laser diode module
- 808nm wavelength
- 2W output power
- 0.22NA, 62.5um fiber core diameter
- High stability

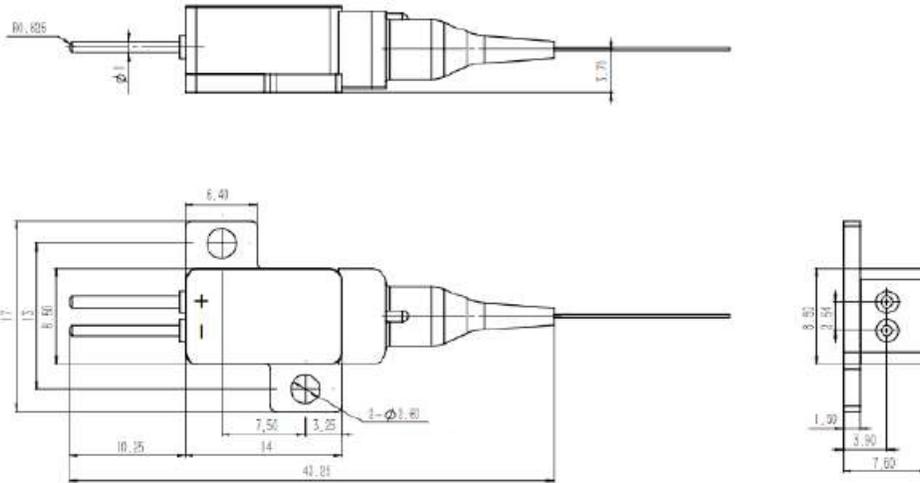
Applications

- Printing
- Pump source
- Material processing
- Bio-medical

Specifications (T_{OP} = 25°C)

ELECTRICAL-OPTICAL CHARACTERISTICS					
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
Output power (CW)	P _o		2		W
Center wavelength	λ _c	798	808	818	nm
Spectral width (FWHM)	Δλ		3.5		nm
Electrical-to-optical efficiency	PE		45		%
Threshold current	I _{th}		0.35		A
Operating current	I _{op}		2.5		A
Operating voltage	V _{op}		1.75	2.2	V
Slope efficiency	η		0.8		W/A
Spectral temperature shift	Δλ/ΔT		0.3		nm/°C
Case operating temperature	T _{op}	-20	25	70	°C
Storage temperature	T _{stg}	-30	25	70	°C
Core diameter	D _{core}		62.5		um
NA	NA		0.22		
Fiber connector		FC/PC			
Fiber length		0.9			m

Outline Dimensions (unit: mm)



Additional Notes

- The HBFC808PFC2W 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.