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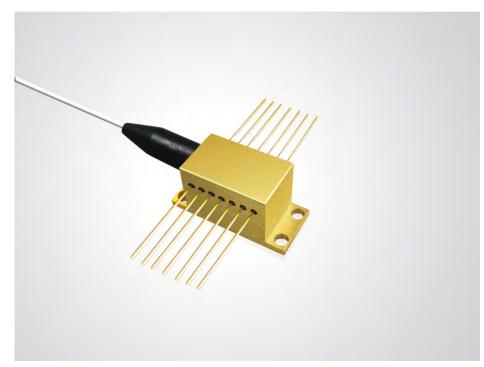
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800.887.5065



808nm 2W Butterfly Packaged Diode Laser

K808D14FN-2.00W



Features:

- 2W output power
- 105µm fiber core diameter
- 0.22N.A.
- 808nm wavelength

Applications:

- Laser pumping
- Medical use
- Scientific

BWT Beijing's High Power Diode Laser Modules are manufactured by adopting specialized fiber-coupling techniques, resulting in volume products with a high efficiency, stability and superior beam quality. The products are achieved by transforming the asymmetric radiation from the laser diode chip into an output fiber with small core diameter by using special micro optics. Inspecting and burn-in procedures in every aspect come to a result to guarantee each product with the reliability, stability and long lifetime.

Our research staffs are constantly improving and innovating the processing technology in the producing process, based on the professional knowledge and experience accumulated in long-terms. We are also continuously developing new products to meet customers' specific needs.

At BWT Beijing, to provide high quality products with reasonable price is always our goal.



808nm 2W Butterfly Packaged Diode Laser

K808D14FN-2.00W

Specific	ations (25℃)	Symbol	Unit	K808D14FN-2.00W
Optical Data	CW-Output Power	Po	W	2
	Center Wavelength	λο	nm	808
	Tolerance of λ	-	nm	±3,±10
	Spectral Width (FWHM)	$\triangle \lambda$	nm	<3
	Temperature Drift of λ	-	nm/℃	~0.3
	Fiber Core Diameter	Wc	μm	105
Fiber Data (1)	Numerical Aperture	N.A.	-	0.22
	Fiber Connector	-	-	SMA-905
Electrical Data	Operating Current	l _{op}	А	2.5
	Threshold Current	I _{th}	Α	0.4
	Conversion Efficiency	η	%	42
	Slope Efficiency	η _D	W/A	0.9
	Operating Voltage	V _{op}	V	1.9
	Reverse Voltage	V _{re}	V	2
PD Data	Current	I _{mo}	mA	0.2~1.0
TEC Data	Max. Current	It	Α	2.2
	Max. Voltage	Vt	V	8.7
Thermistor Data (2)	Thermistor	R _t	(K Ω)/β(25°C)	10±5%/3477
	Operating Temperature	T _{op}	${\mathbb C}$	10~30
	Storage Temperature	T _{st}	${\mathbb C}$	-20~+80
	Expected Lifetime	MTTF	h	>10,000
Others	Dimensions (fiber and connector not included)	-	mm	30.0×12.7×14.8
	Lead Soldering Temperature	T _{is}	${\mathbb C}$	260(10 sec.)

⁽¹⁾ Other fibers available upon available.

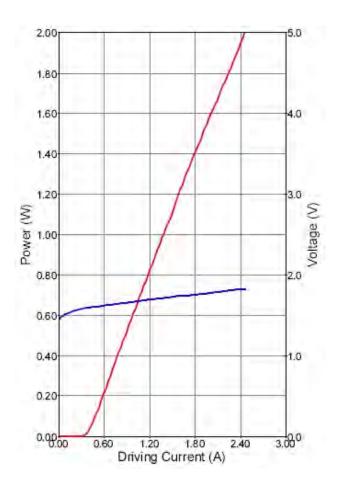
⁽²⁾ $R_t=R_0 \cdot \exp(\beta(1/T-1/T_0,)), (T_0=25^{\circ}C=298K).$



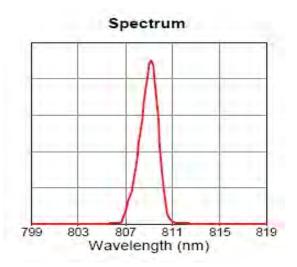
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Characteristics



Typ. Spectrum (T=25℃)

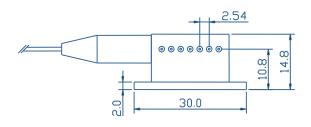


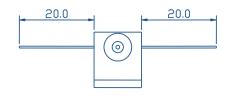


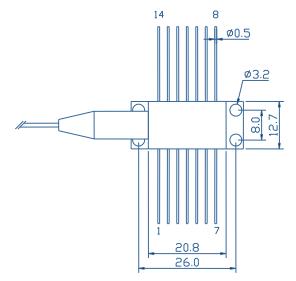
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Package Dimensions (mm)







Pin	Function	Pin	Function
1	TEC (+)	8	None
2	Thermistor	9	None
3	PD (P)	10	LD (+)
4	PD (N)	11	LD (-)
5	Thermistor	12	None
6	None	13	Case
7	None	14	TEC (-)

OPERATING NOTES

- Avoid eye exposure to direct or scattered radiation.
- ESD precautions must be taken.
- Please connect pins to wires by solder instead of using socket when operation current is higher than 6A.
 Soldering point should be close to the root of the pins. Soldering temperature should be lower than 260 °C and time shorter than 10 second.
- Use constant current power supply. Avoid surge current.
- Laser diode must be used according to the specifications.
- Laser diode must work with good cooling.
- A minimum bend diameter should be 300 times greater than the fiber diameter.
- Operation temperature is 10 °C ~ 30 °C.
- Storage: -20 °C ~ +80 °C, all pins short-circuit.





Information and specifications contained herein are deemed to be reliable and accurate. BWT Beijing reserves the right to change, alter or modify the design and specifications of these products at any time without notice