

808nm 15W Diode Laser HJK808DAHFN-25W

Model #: HJK808DAHFN-25W

Description: 808 nm 25W Fiber Coupled Diode Laser

Features: 808 nm wavelength, 25W output power, 400 um fiber core, 0.22 N.A.

Application: Solid state laser pumping, medical treatment, material processing

Specifications:

Specifications (25W)		Symbol	Unit	K808DAHFN-25.00W		
				Minimum	Typical	Maximum
Parameter ⁽¹⁾	CW Output Power	P _o	W	25	-	-
	Threshold current	I _{th}	A	-	1.8	-
	Operating current	I _{op}	A	-	10	11
	Operating voltage	V _{op}	V	-	-	6
	Reverse Voltage	V _{re}	V	-	7.5	-
	Slope Efficiency	η	W/A	-	3	-
	Electrical-to-Optical Efficiency	PE	%	-	48	-
	Center wavelength	λ _c	nm	805	-	811
	Spectral width(FWHM)	Δλ	nm	-	3	-
	Wavelength Shift with Temperature	-	nm/□	-	0.3	-
Wavelength Shift with Current	-	nm/A	-	1	-	
Fiber Data	Buffer diameter	D _{buf}	μm	-	730	-
	Cladding diameter	D _{clad}	μm	-	440	-
	Core diameter	D _{core}	μm	-	400	-
	Numeric aperture	NA	NA	-	0.22	-
	Fiber length ⁽²⁾	l _c	m	1.4	1.5	1.6
	Connector ⁽³⁾	-	-	-	SMA905	-
	Fiber jacket ⁽⁴⁾	-	-	-	3.0mmPVC	-
Fiber Bend Radius	-	mm	-	140	-	
Thermistor	-	R _t	(K Ω)/β(25°C)	-	10±3%/3477	-
Others	ESD	-	V	-	-	500
	Storage temperature	-	□	-20	-	70
	Lead Soldering Temp	T _{is}	□	-	-	260
	Lead Soldering Time	T _{is}	sec	-	-	10
	Operating case temperature ⁽⁵⁾	T _{op}	□	15	-	35
	Relative Humidity	-	%	15	-	75

(1) Data measured under operation output at 25W.

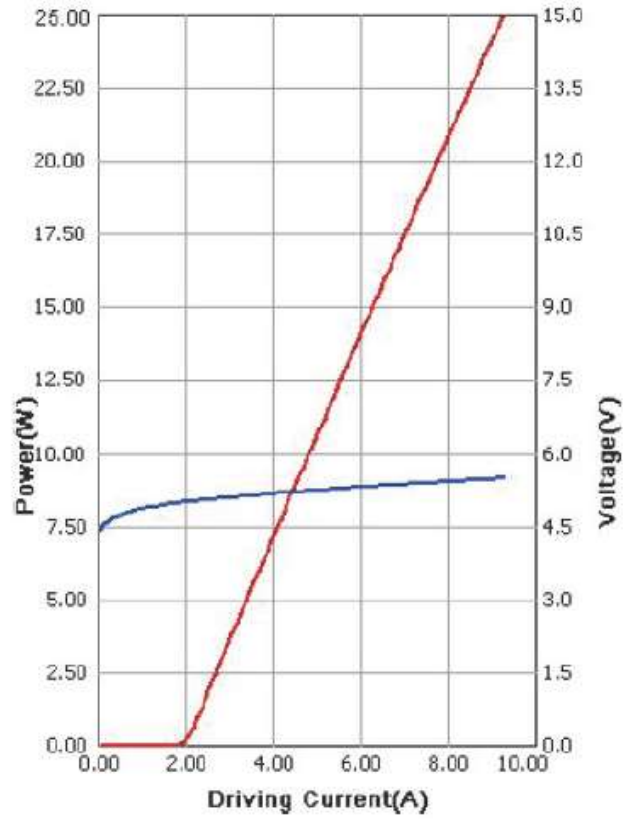
(2) Other length available upon request.

(3) Other connector available upon request.

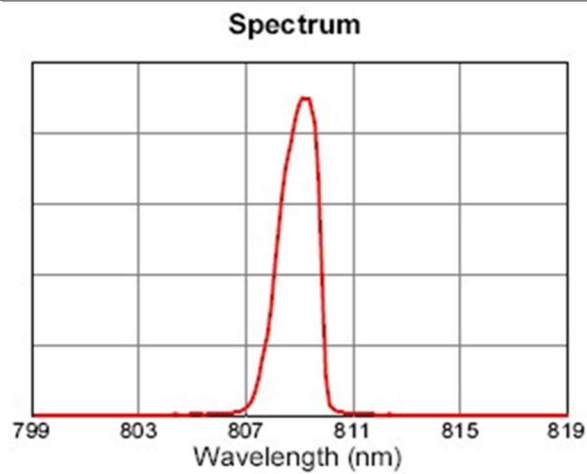
(4) Other fiber jacket available upon request.

(5) Operating temperature defined by the package case. Acceptable operating range is 15 - 35C, but performance may vary.

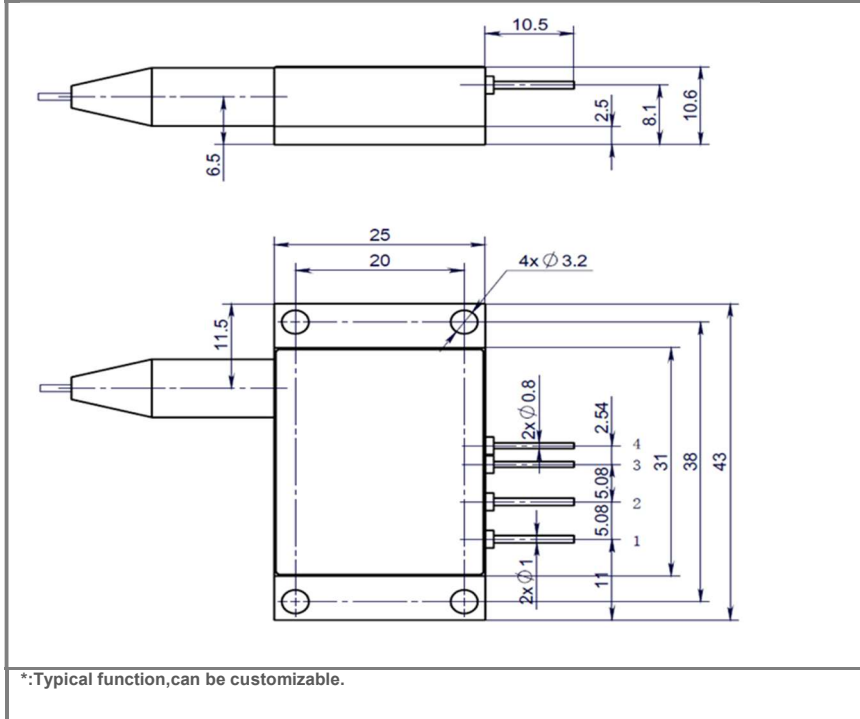
Characteristics



Typ. Spectrum (T=25°C)



Package Dimensions (mm)

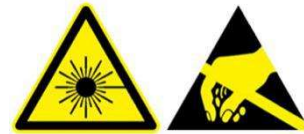


Pins	Function
1	LD (+)
2	LD (-)
3	Thermistor*
4	Thermistor*

*:Typical function,can be customizable.

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.
- ◆ Operation temperature is 15°C~ 35°C.
- ◆ Storage: -20°C~ +70°C, all pins short-circuit.



Declaration: information and specifications contained herein are deemed to be reliable and accurate. We reserve the right to change, alter or modify the design and specifications of these products at any time without notice. 18-1