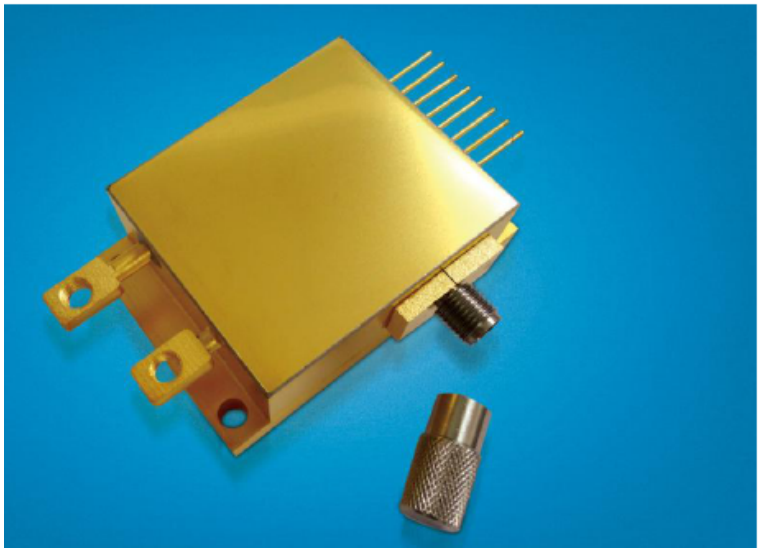
S81DANC-30W-FS

Product Information



Key Features:

- 30W output power
- Standard fiber coupling for 200μm, 400μm NA 0.22
- 808nm wavelength
- Compact package

Options:

- 650nm aiming beam
- Photo diode (PD)
- Fiber detector

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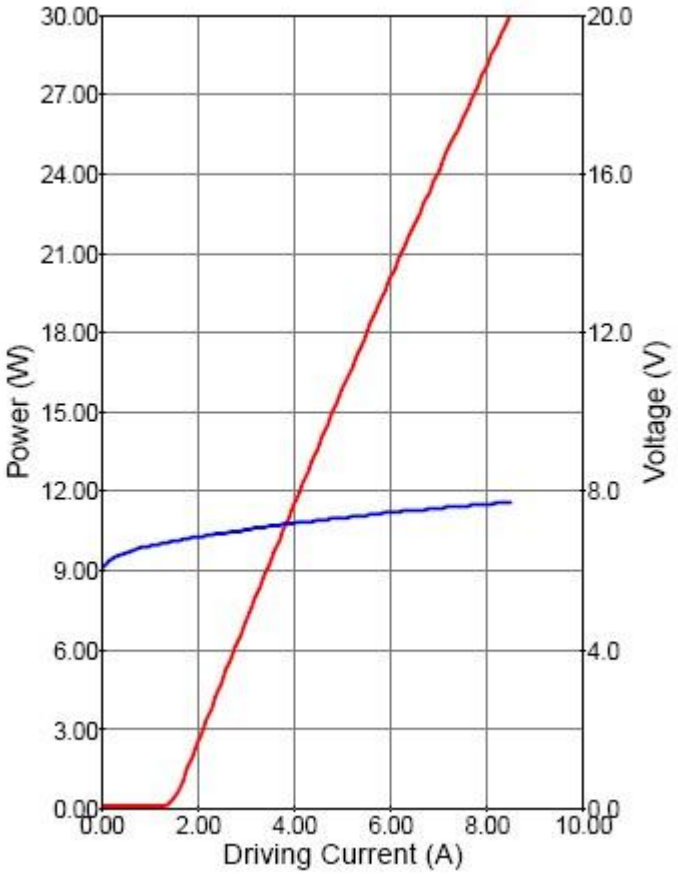
808nm High Brightness Diode Laser

Specifications（25℃）		Symbol	Unit	K81DA4C-30.00W-FS
Optical data	CW-output power	P_o	W	30
	Center wavelength	λ_c	nm	808
	Tolerance of λ	-	nm	±3,±10
	Spectral width (FWHM)	△λ	nm	<3
	Temperature drift of λ	-	nm/℃	~0.3
Connector data	Designed for fiber core diameter	W_c	μm	200,400
	Designed for fiber numerical aperture	NA	-	0.22
	Fiber connector	-	-	SMA-905
Electrical data	Operation current	I_{op}	A	10
	Threshold current	I_{th}	A	1.2
	Conversion efficiency	η	%	42
	Slope efficiency	η_D	W/A	3.8
	Operation voltage	V_{op}	V	7.8
	Reverse voltage	V_{re}	V	<8
PD data	Current	I_{mo}	mA	<8.0
Aiming beam data	Output power	P_a	mW	>2
	Wavelength	λ_a	nm	650±10
	Voltage	V_a	V	2.2(1)
	Current	I_a	mA	<30
Others	Operation temperature	T_{op}	℃	10~30
	Storage temperature	T_{st}	℃	-20~+80
	Lifetime	MTBF	h	>10,000
	Dimensions (fiber and connector not included)	-	mm	52.0×35.0×20.0
	Lead soldering temperature	T_{ls}	℃	260(10 sec.)

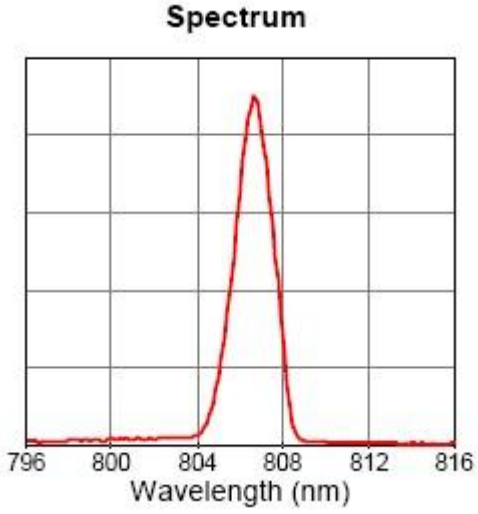
(1) Optional 5V DC input.

808nm High Brightness Diode Laser

Characteristics

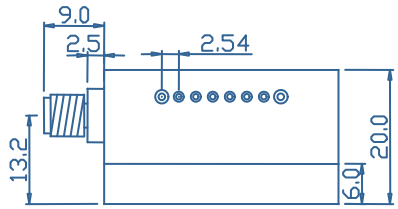


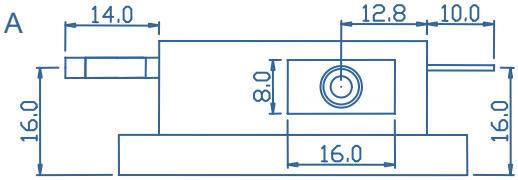
Typ. spectrum (T=25℃)

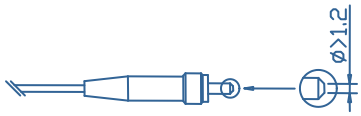


808nm High Brightness Diode Laser

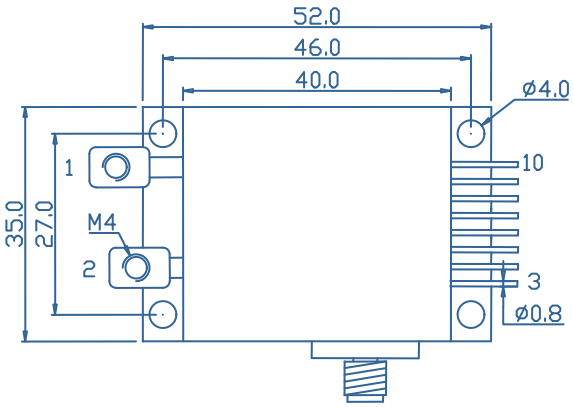
Package Dimensions (mm)







※The end of connector should be> 1.2mm



Pin	Function	Pin	Function
1	LD (-)	6	Aiming Beam LD (+) PD (N)
2	LD (+), Case	7	Aiming Beam LD (-)
3	FCD LED (+)	8	PD (P)
4	FCD LED (-) FCD PD (P)	9	Thermistor
5	FCD PD (N)	10	Thermistor

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℃ 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 10℃~ 30℃.
- Storage: -20℃~ +80℃, all pins short-circuit.