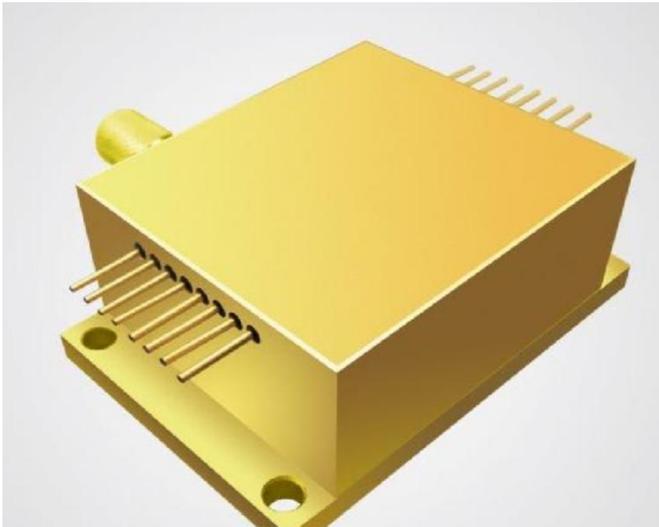


1064nm 15W Detachable Laser Diode

KA64HAMCA-15.00W



Features:

- 15W output power
- 1064nm wavelength
- Standard fiber coupling for 200 μ m/0.22NA
- Customer options :
 - Red or green aiming beam
 - Thermistor
 - Power PD
 - TEC cooler
 - Fiber detector

Applications:

- Dental
- Dermatology
- Therapeutic

Specifications (25°C)		Symbol	Unit	KA64HAWCA-15.00W		
				Minimum	Typical	Maximum
Parameter ¹⁾	CW Output Power	P _o	W	15	-	-
	Threshold current	I _{th}	A	-	0.7	-
	Operating current	I _{op}	A	-	-	9
	Operating voltage	V _{op}	V	-	-	5.2
	Reverse Voltage	V _{re}	V	-	7.5	-
	Slope Efficiency	η	W/A	-	2.1	-
	Electrical-to-Optical Efficiency	PE	%	32	-	-
	Center wavelength	λ_c	nm	1044	-	1084
	Spectral width (FWHM)	δ_λ	nm	-	6	-
	Wavelength Shift with Temperature	-	nm/°C	-	0.3	-
Fiber Data	Buffer diameter	D _{buf}	μ m	-	400	-
	Cladding diameter	D _{clad}	μ m	-	220	-
	Core diameter	D _{core}	μ m	-	200	-
	Numeric aperture	NA	-	-	0.22	-
Others	ESD	V _{esd}	V	-	-	500
	Storage temperature	T _{stg}	°C	-20	-	70
	Lead Soldering Temp	T _{ls}	°C	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating case temperature	T _{op}	°C	15	-	35
	Relative Humidity	RH	%	15	-	75
PD Data	Current	I _{mo}	μ A	200	-	2000
Thermistor	-	R _t	(K Ω)/ β (25°C)	-	10 \pm 3%/3477	-
Aiming Beam Data	Output Power	P _a	mW	-	2	-
	Wavelength	I _a	nm	630	-	643
	Voltage ⁽²⁾	V _a	V	-	2.2	-
	Current	I _a	mA	-	45	65

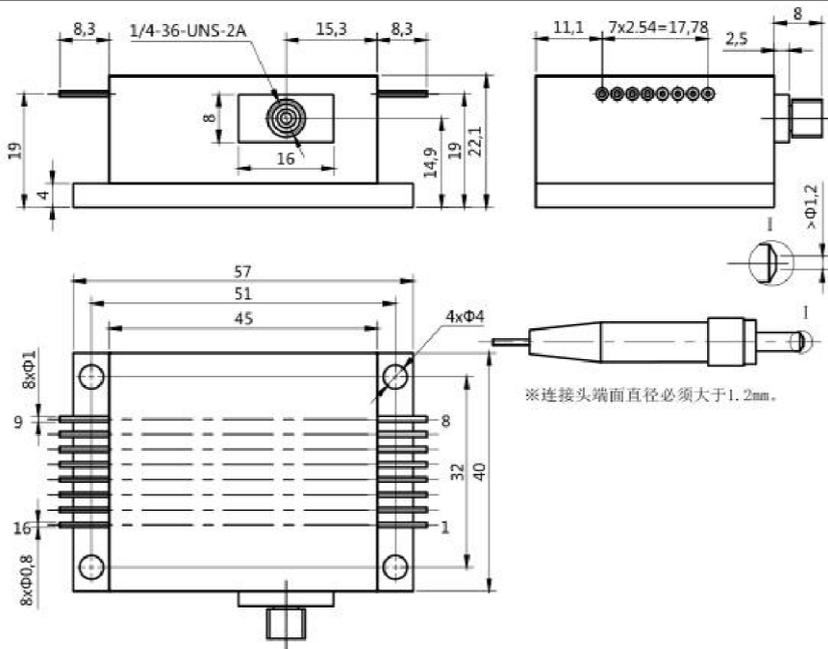
(1) Data measured under operation output at 15W.

(2) Support 5V DC input

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Package Dimensions (mm)



Pin	Function
1	Fiber detector LED(+)* Fiber detector PD(N)*
2	Fiber detector LED(-)*
3	Fiber detector PD(P)*
4	Aiming beam (+)*
5	Aiming beam (-)*
6	PD(N)*
7	PD(P)*
8	Thermistor*
9	Thermistor *
10	TEC(-)*
11	LD(+)
12	LD(-)
13	-
14	-
15	TEC(+)*

*:Optional functions.

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 radius should be 300 times greater than the fiber cladding diameter, dynamic bend radius should be 400 times greater than the fiber cladding diameter.
- Operation temperature is 15°C~ 35°C.
- Storage: -20°C~ +70°C, all pins short-circuit.