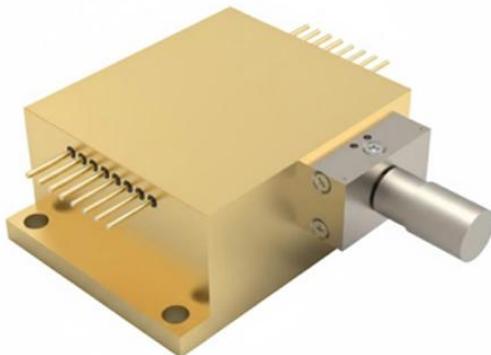


1064 nm 20 W Multi-Function Detachable Laser Diode

KA64HAMCA-20.00WY1Y



Features:

- 1064 nm wavelength
- 20 W output power
- 200 μm fiber core diameter
- 0.22 NA

Applications:

- Medical use
- Fiber laser pumping
- Research and development

Specifications (25 °C)		Symbol	Unit	KA64HAMCA-20.00WY1Y		
				Minimum	Typical	Maximum
Optical Data ⁽¹⁾	CW Output Power	P_o	W	20	-	-
	Center Wavelength	λ_c	nm	1064±20		
	Wavelength Shift with Temperature	$\Delta\lambda/\Delta T$	nm/°C	-	0.3	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	50	-
	Threshold Current	I_{th}	A	-	1.0	-
	Operating Current	I_{op}	A	-	12	15
	Operating Voltage	V_{op}	V	-	3.5	4
	Slope Efficiency	η	W/A	-	1.8	-
Fiber Data	Core Diameter	D_{core}	μm	-	200	-
	Fiber Termination	-	-	SMA905		
Thermistor	-	R_t	(K Ω)/(25°C)	10±3%		
PD	-	I_{mo}	μA	100		2000
Others	ESD	V_{esd}	V	-	-	500
	Storage Temperature ⁽²⁾	T_{st}	°C	-20	-	70
	Lead Soldering Temp	T_{ls}	°C	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature ⁽³⁾	T_{op}	°C	15	-	35
	Relative Humidity	RH	%	15	-	75
Aiming Beam	Output Power	P_a	mW	2	-	-
	Wavelength	λ_a	nm	635±10		
	Voltage	V_a	V		2.3	2.6
	Current	I_a	mA	-	45	65

(1) Data measured under operation output at 20W@25°C.

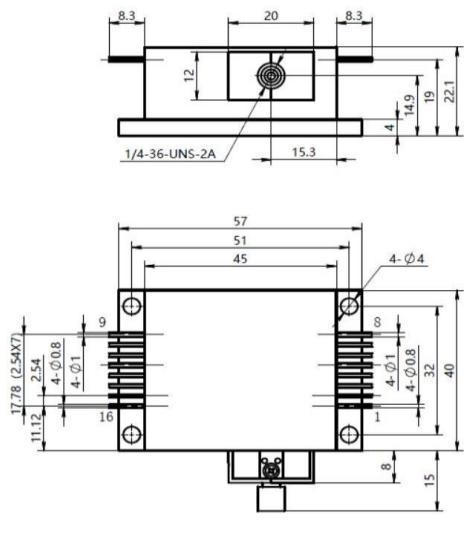
(2) A non-condensing environment is required for operation and storage.

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

1064 nm 20 W Multi-Function Detachable Laser Diode

KA64HAMCA-20.00WY1Y

Package Dimensions (mm)



Pin	Function
1	FCD LED(-)
2	FCD LED(+) &PD(N)
3	FCD PD(P)
4	Aiming Beam(+) &PD(N)
5	Aiming Beam(-)
6	PD(P)
7	Thermistor
8	Thermistor

OPERATING NOTES

- Avoid eye and skin exposure to direct radiation during operation.
- ESD precautions must be taken during storage, transportation and operation.
- Short-circuit is required between pins during storage and transportation.
- 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 middle of the pins. Soldering temperature should be lower than 260°C and time shorter than 10 second.
- Make sure the fiber output end is properly cleaned before operation of laser. Follow safety protocols to avoid injury when handling and cutting the fiber.
- Use constant current power supply to avoid surge current during operation.