

1470nm 15W Multi-Function Detachable Diode Laser KE70HA5CA-15.00W (Standard Product)



Features:

- 1470nm wavelength
- 15W output power
- 400µm fiber core diameter
- 0.22 NA
- Additional Functions: Aiming beam
 Fiber & Power monitor
 Thermistor
 Exchangeable window

Applications:

Medical use

BWT, founded in 2003, is committed to the mission of "let the dream drive the light", the vision of becoming the "Global leader in laser solutions", and the value of "Outstanding innovation", providing diode laser, fiber laser, ultra-fast laser products and solutions to global customers.

The company pursues continuous innovation and insists on autonomous and controllable advanced process and technology. With Beijing headquarters as the core, BWT has successively established production and R&D centers in Jiangsu, Shanghai and Shenzhen, and invested in the construction of intelligent and digital production base in Tianjin. In order to build the world's highest level of technical strength and product quality, BWT set up a German subsidiary in 2020, introducing European quality standards, and taking a solid step for the internationalization of R&D, production and technological innovation.

Up to now, BWT has traded more than 10 million lasers worldwide. BWT's products are available in more than 70 countries and regions, applications involving industry, medical, commercial, scientific research, information and many other fields.

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00	First edition	2021.09.17		

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				KE7	0HA5CA-1	5.00W
Spec	ifications(25℃)	Symbol	Unit	Minimum	Typical	Maximum
	CW Output Power	Po	W	15	-	-
Optical Data ⁽¹⁾	Center Wavelength	λα	nm		1470±20	
	Wavelength Shift with Temperature	$\Delta\lambda/\Delta T$	nm/°C	-	0.3	-
	Electrical-to-Optical Efficiency	PE	%	-	15	-
	Threshold Current	I _{th}	mA	-	0.3	-
Electrical Data	Operating Current	l _{op}	mA	-	-	9
	Operating Voltage	V _{op}	V	-	-	13.5
	Slope Efficiency	η	W/A	-	1.8	-
Fiber Data	Core Diameter	D _{core}	μm	-	400	-
	Numeric Aperture	NA	-	-	0.22	-
	Fiber Connector	-	-	SMA905		
Thermistor	-	Rt	(K Ω)/(25°C)		10±3%	
PD	-	PD	μA	10	-	1000
	ESD	V _{esd} V 500	500			
Others	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	-	30
	Relative Humidity	RH	%	15	-	75
Aiming Beam	Output Power	Pa	mW	2	-	-
	Wavelength	λa	nm	635±10		
	Voltage	Va	V	-	2.3	3
	Current	la	mA		45	65

(1) Data measured under operation output at 15W@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~30°C, but performance may vary.

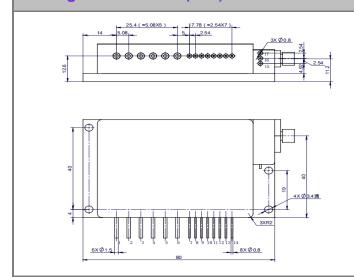






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Package Dimensions (mm)



Pin	Function	Pin	Function
1	LD (+)	10	Thermistor
2	LD (-)	11	PD(P)
3	-	12	PD(N)
4	-	13	-
5	-	14	-
6	-	15	FCD PD (P)
7	Aiming Beam(+)	16	FCD LED(+)&PD (N)
8	Aiming Beam(-)	17	FCD LED(-)
9	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.
- Laser diode must be used according to the specifications.
- Laser diode must work with good cooling.
- Operation temperature ranges from 15° to 30° .
- ♦ Storage temperature ranges from -20°C to +70°C.



Declaration: 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.21-1



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