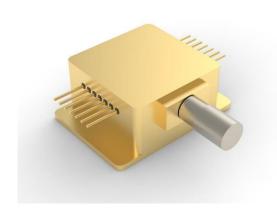


808nm 8W Multi-Function Detachable Diode Laser

K808F14CC-8.000W (Standard Product)



Features:

- 808nm wavelength
- 8W output power
- 400µm fiber core diameter
- 0.22 NA
- Additional Functions:

Aiming beam

Fiber & Power monitor

Thermistor

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 and Shenzhen, and invested in the construction of intelligent and digital production base in Tianjin. To bulid a high 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.

	Version number	Change content	Change date
	00	First edition	2021.09.17
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			Unit	K808F14CC-8.000W		
Specifications (25°C)		Symbol		Minimum	Typical	Maximum
	CW Output Power	Po	W	8	-	-
Optical Data ⁽¹⁾	Center Wavelength	λο	nm	808±10		
	Wavelength Shift with Temperature	Δλ/ΔΤ	nm/°C	-	0.3	-
	Electrical-to-Optical Efficiency	PE	%	-	40	-
	Threshold Current	I _{th}	А	-	1.8	-
Electrical Data	Operating Current	I _{op}	А	-	-	11
	Operating Voltage	V _{op}	V	-	-	2.2
	Slope Efficiency	η	W/A	-	1.0	-
	Core Diameter	D _{core}	μm	-	400	-
Fiber Data	Numeric Aperture	NA	-	-	0.22	-
	Fiber Connector	-	-	SMA905		
Thermistor	-	Rt	(K Ω)/(25℃)		10±3%	
PD	-	PD	μΑ	100	-	1000
TEC	Max. Current	I _{tec}	А	-	-	6
ILO	Max. Voltage	V _{tec}	V	-	-	9.8
	ESD	V _{esd}	V	-	-	500
	Storage Temperature ⁽²⁾	T _{st}	°C	-20	-	70
Others	Lead Soldering Temp	T _{Is}	°C	-	-	260
Others	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature ⁽³⁾	T _{op}	℃	15	-	35
	Relative Humidity	RH	%	15	-	75
	Output Power	Pa	mW	2	-	-
Aiming Beam	Wavelength	λа	nm	635±10		
	Voltage	Va	V	5V(Constant)		

⁽¹⁾ Data measured under operation output at 8W@25°C.

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

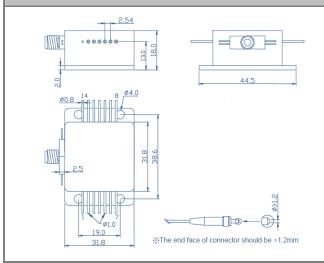
⁽³⁾ Operating temperature defined by the package case. Acceptable operating range is 15°C~35°C, but performance may vary.



808nm 8W Multi-Function Detachable Diode Laser

K808F14CC-8.000W (Standard Product)

Package Dimensions (mm)



Pin	Function	Pin	Function
1	Case	10	TEC(-)
2	LD(+)	11	FCD PD (P)
3	Thermistor	12	FCD LED (-)
4	Thermistor	13	FCD LED (+)&FCD PD (N)
5	LD(-)	14	Aiming Beam(5V)
6	PD(P)	15	Aiming Beam(0V)
7	PD(N)	16	TEC(+)

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℃ 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°C to 35°C .
- Storage temperature ranges from -20 $^{\circ}$ C to +70 $^{\circ}$ 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