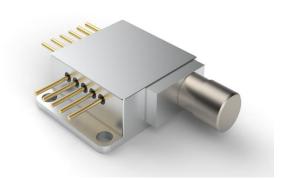


980nm 10W Multi-Function Detachable Diode Laser

K980F11CA-10.00W (Standard Product)



Features:

- 980nm wavelength
- 10W output power
- 200µm 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, and taking a solid step for the internationalization of R&D, production and technological innovation.

Version number	Change content	Change date
00	First edition	2021.09.17



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Specifications (25°C)		Symbol	Unit	K980F11CA-10.00W		
				Minimum	Typical	Maximum
Optical Data ⁽¹⁾	CW Output Power	Po	W	10	-	-
	Center Wavelength	λο	nm	980±10		
	Wavelength Shift with Temperature	Δλ/ΔΤ	nm/°C	-	0.3	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	48	-
	Threshold Current	I _{th}	А	-	0.7	-
	Operating Current	I _{op}	А	-	-	12.5
	Operating Voltage	V _{op}	V	-	-	2.0
	Slope Efficiency	η	W/A	-	0.9	-
	Core Diameter	D _{core}	μm	-	200	-
Fiber Data	Numeric Aperture	NA	-	-	0.22	-
	Fiber Connector	-	-	SMA905		
Thermistor	-	Rt	(K Ω)/(25℃)		10±3%	
PD	-	PD	μΑ	100	-	2000
Others	ESD	V _{esd}	V	-	-	500
	Storage Temperature ⁽²⁾	T _{st}	℃	-20	-	70
	Lead Soldering Temp	T _{Is}	℃	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature ⁽³⁾	Top	℃	15	-	35
	Relative Humidity	RH	%	15	-	75
Aiming Beam	Output Power	Pa	mW	2	-	-
	Wavelength	λα	nm	635±10		
	Voltage	Va	V		2.3	2.6
	Current	la	mA		45	65

⁽¹⁾ Data measured under operation output at 10W@25°C.

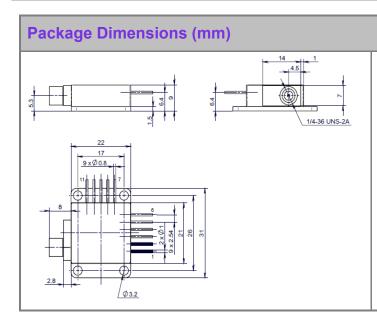
⁽²⁾ A non-condensing environment is required for operation and storage.

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



980nm 10W Multi-Function Detachable Diode Laser

K980F11CA-10.00W (Standard Product)



Pin	Function	Pin	Function
1	LD (+)	7	Thermistor
2	LD (-)	8	Thermistor
3	PD(N)	9	FCD PD(P)
4	PD(P)	10	FCD LED(-)
5	Aiming Beam(-)	11	FCD LED(+)&PD(N)
6	Aiming Beam(+)	-	-

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.
- ♦ 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