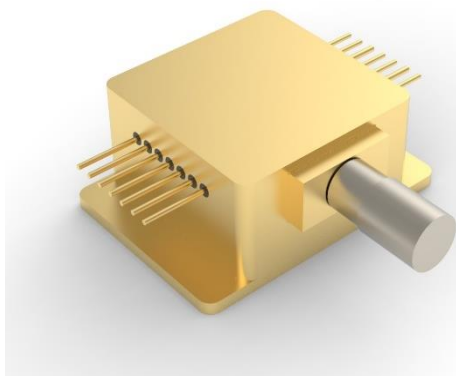


**980nm 10W Multi-Function Detachable Diode Laser**  
**K980F14CC-10.00W (Standard Product)**



**Features :**

- ◆ 980nm wavelength
- ◆ 10W output power
- ◆ 200µm fiber core diameter
- ◆ 0.22 NA
- ◆ Additional Functions:
  - Aiming beam
  - Fiber & Power monitor
  - Thermistor

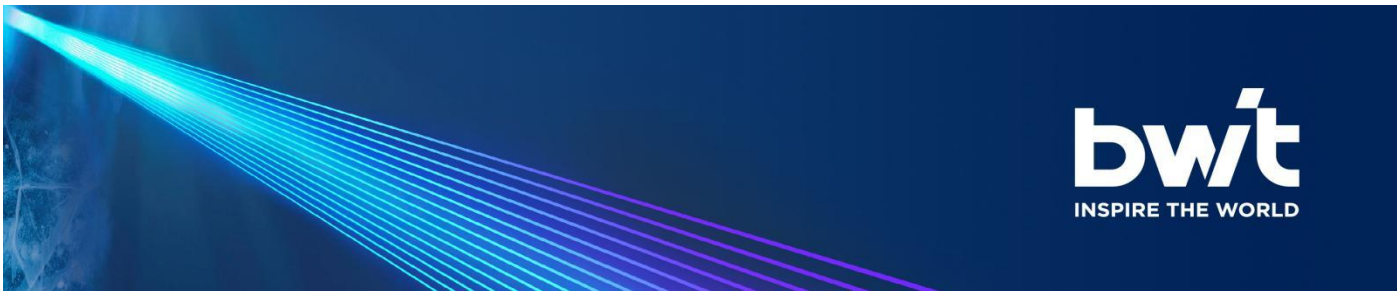
**Applications :**

- ◆ 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.

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00	First edition	2021.09.17



## 980nm 10W Multi-Function Detachable Diode Laser K980F14CC-10.00W (Standard Product)

Specifications ( 25°C )		Symbol	Unit	K980F14CC-10.00W		
				Minimum	Typical	Maximum
Optical Data <sup>(1)</sup>	CW Output Power	P <sub>o</sub>	W	10	-	-
	Center Wavelength	λ <sub>c</sub>	nm	980±10		
	Wavelength Shift with Temperature	Δλ/ΔT	nm/°C	-	0.3	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	48	-
	Threshold Current	I <sub>th</sub>	A	-	1.0	-
	Operating Current	I <sub>op</sub>	A	-	-	12.5
	Operating Voltage	V <sub>op</sub>	V	-	-	2.0
	Slope Efficiency	η	W/A	-	0.9	-
Fiber Data	Core Diameter	D <sub>core</sub>	μm	-	200	-
	Numeric Aperture	NA	-	-	0.22	-
	Fiber Connector	-	-	SMA905		
Thermistor	-	R <sub>t</sub>	(K Ω)/(25°C)		10±3%	
PD	-	PD	μA	100	-	2000
TEC	Max. Current	I <sub>tec</sub>	A	-	-	6
	Max. Voltage	V <sub>tec</sub>	V	-	-	9.8
Others	ESD	V <sub>esd</sub>	V	-	-	500
	Storage Temperature <sup>(2)</sup>	T <sub>st</sub>	°C	-20	-	70
	Lead Soldering Temp	T <sub>ls</sub>	°C	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature <sup>(3)</sup>	T <sub>op</sub>	°C	15	-	35
	Relative Humidity	RH	%	15	-	75
Aiming Beam	Output Power	P <sub>a</sub>	mW	2	-	-
	Wavelength	λ <sub>a</sub>	nm	635±10		
	Voltage	V <sub>a</sub>	V	5V(Constant)		

(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.

