



## Multi-Wavelength Detachable Diode Laser

**KD030H015A5CC-Y1Y**



### Features :

- ◆ Multiple wavelength
- ◆ Multiple function
- ◆ 200 $\mu$ m fiber detachable
- ◆ 0.22NA
- ◆ Additional Functions:
  - Aiming beam
  - Fiber & Power monitor
  - Thermistor
  - Replaceable window panels (optional)

### Applications :

- ◆ Medical use
- ◆ Scientific research

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 an automated and intelligent production base in Tianjin. To build 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.



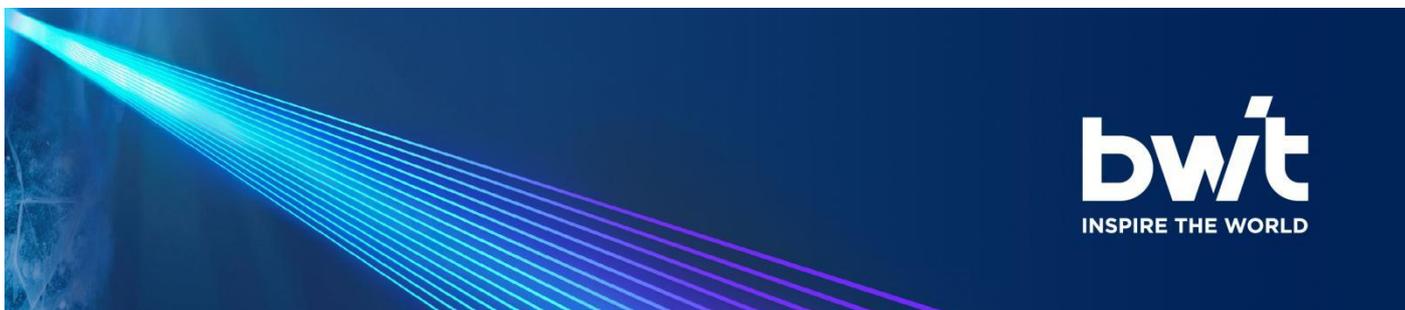
## Multi-Wavelength Detachable Diode Laser KD030H015A5CC-Y1Y

Specifications ( 25°C )		Symbol	Unit	KD030H015A5CC-Y1Y		
				Minimum	Typical	Maximum
980 <sup>(1)</sup>	CW Output Power	P <sub>o</sub>	W	30	-	-
	Center Wavelength	λ <sub>c</sub>	nm	980±10		
	Threshold Current	I <sub>th</sub>	A	-	1.0	-
	Operating Current	I <sub>op</sub>	A	-	12	13
	Operating Voltage	V <sub>op</sub>	V	-	5	6
1470 <sup>(1)</sup>	CW Output Power	P <sub>o</sub>	W	15	-	-
	Center Wavelength	λ <sub>c</sub>	nm	1470±20		
	Threshold Current	I <sub>th</sub>	A	-	0.2	-
	Operating Current	I <sub>op</sub>	A	-	8	9
	Operating Voltage	V <sub>op</sub>	V	-	9.0	10.5
Thermistor	-	R <sub>t</sub>	(K Ω)/(25°C)	-	10±3%	-
980 PD	-	PD	μA	100	-	3000
1470 PD	-	PD	μA	100	-	1000
Fiber Data	Core Diameter	D <sub>core</sub>	μm	-	200	-
	Numerical Aperture	NA	-	-	0.22	-
	Fiber Connector	-	-	-	SMA905	-
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>is</sub>	°C	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature <sup>(3)</sup>	T <sub>op</sub>	°C	20	-	30
	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 temperature @25°C.

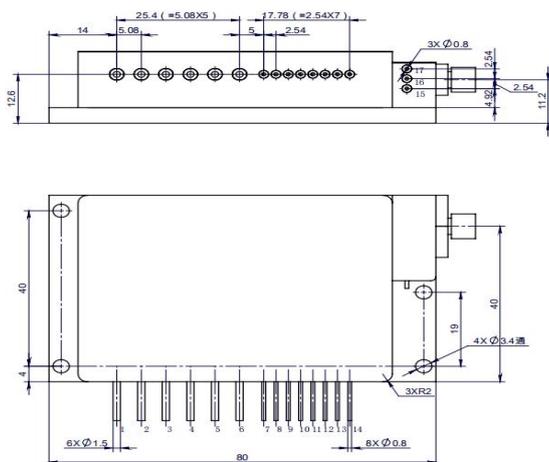
(2) A non-condensing environment is required for operation and storage.

(3) Operating temperature defined by the package case. Acceptable operating range is 20°C~30°C, but performance may vary.



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### Package Dimensions (mm)



Pin	Function	Pin	Function
1	980LD (+)	10	Thermistor
2	980LD (-)	11	980PD ( P )
3	-	12	980PD ( N )
4	-	13	1470PD ( P )
5	1470LD(+)	14	1470PD ( N )
6	1470LD(-)	15	FCDPD(+)
7	Aiming Beam(5V)	16	FCD LED(+) & PD(-)
8	Aiming Beam(0)	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.  
to the middle of the pins. Soldering temperature should be lower than 260°C and time shorter than 10 second.  
cutting the fiber.
- ◆ Laser diode must work with good cooling.
- ◆ Operation temperature ranges from 20°C to 30°C .
- ◆ 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.24-1