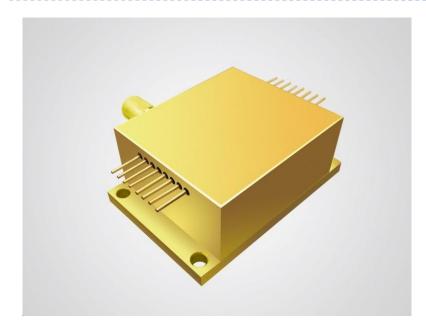


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980nm and 808nm 15W Multi-Function Detachable Diode Laser KA15D15AMCA



Features:

- 15W output power
- 808nm and 980nm wavelength integration
- ◆ Standard fiber coupling for 400µm/ 0.22NA
- Customer options:

Aiming beam

Power PD

Thermistor

Fiber detector

Applications:

- Medical use
- Material processing

BWT Beijing's high power diode laser modules are manufactured by adopting specialized fiber-coupling techniques, resulting in volume products with a high efficiency, stability and superior beam quality. The products are achieved by transforming the asymmetric radiation from the laser diode chip into an output fiber with small core diameter by using special micro optics. Inspecting and burn-in procedures in every aspect come to a result to guarantee each product with the reliability, stability and long lifetime.

Our research staffs are constantly improving and innovating the processing technology in the producing process, based on the professional knowledge and experience accumulated in long-terms. We are also continuously developing new products to meet customers' specific needs.

At BWT Beijing, to provide high quality products with reasonable price is our always goal.



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Specifications(25℃)		Symbol	Unit	KA15D15AMCA		
				Minimum	Typical	Maximum
	Center wavelength	λς	nm	970	-	990
	CW Output Power	Po	W	15	-	-
	Threshold current	I _{th}	А	-	0.5	-
	Operating current	I _{op}	А	-	-	10
	Operating voltage	V _{op}	V	-	-	4
	Reverse Voltage	V _{re}	V	-	5	-
	Slope Efficiency	η	W/A	-	1.8	-
	Electrical-to-Optical Efficiency	PE	%	40	-	-
	Spectral width(FWHM)	δλ	nm	-	6	-
Parameter ⁽¹⁾	Center wavelength	λς	nm	798	-	818
	CW Output Power	Po	W	15	-	-
	Threshold current	I _{th}	А	-	1.8	-
	Operating current	lop	А	-	-	10
	Operating voltage	V _{op}	V	-	-	4.5
	Reverse Voltage	V _{re}	V	-	5	-
	Slope Efficiency	η	W/A	-	1.6	-
	Electrical-to-Optical Efficiency	PE	%	40	-	-
	Spectral width(FWHM)	δ _λ	nm	-	6	-
	Wavelength Shift with Temperature	-	nm/℃	-	0.3	-
Fiber Data	Buffer diameter	D _{buf}	μm	-	730	-
	Cladding diameter	D _{clad}	μm	-	440	-
	Core diameter	D _{core}	μm	-	400	-
	Numeric aperture	NA	-	-	0.22	-
Others	ESD	V _{esd}	V	-	-	500
	Storage temperature	T _{stg}	$^{\circ}$	-20	-	70
	Lead Soldering Temp	T _{Is}	°C	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating case temperature	Тор	°C	15	-	35
	Relative Humidity	RH	%	15	-	75
PD Data	Current	Imo	μΑ	200	-	2000
Thermistor	-	Rt	(K Ω)/β(25℃)	-	10±3%/3477	-
Aiming Beam Data	Output Power	Pa	mW	-	2	-
	Wavelength	la	nm	630	-	643
	Voltage ⁽²⁾	Va	V	-	2.2	-
	Current	la	mA	-	45	65

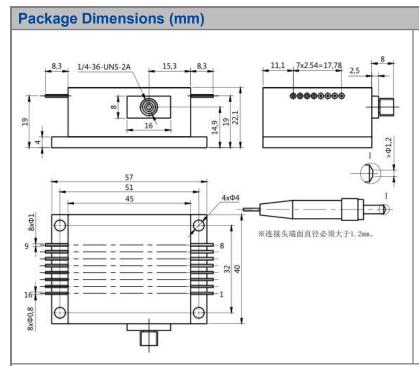
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980nm and 808nm 15W Multi-Function Detachable Diode Laser KA15D15AMCA

- (1) Data measured under operation output at 15W.
- (2) Support 5V DC input



Pins	Function	Pins	Function	
1	Fiber detector LED(+)		Thermistor *	
	Fiber detector PD(N)	tor PD(N)*		
2	Fiber detector LED(-)*	10	-	
3	Fiber detector PD(P)*	11	980nm LD(+)	
4	Aiming beam (+)*	12	980nm LD(-)	
5	Aiming beam (-)*	13	808nm LD(+)	
6	PD(N)*	14	808nm LD(-)	
7	PD(P)*	15	-	
8	Thermistor*	-	-	

*: Optional functions.

OPERATING NOTES

- ◆ Avoid eye exposure to direct or scattered radiation.
- ◆ ESD precautions must be taken.
- 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 root of the pins. Soldering temperature should be lower than 260°C and time shorter than 10 second.
- ◆ Use constant current power supply. Avoid surge current.
- ◆ Laser diode must be used according to the specifications.
- ◆ Laser diode must work with good cooling.
- ♦ A minimum bend radius should be 300 times greater than the fiber cladding diameter, dynamic bend radius should be 400 times greater than the fiber cladding diameter.
- ◆ Operation temperature is 15 °C ~ 35 °C.
- ◆ Storage: -20°C~+70°C, all pins short-circuit.





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.

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