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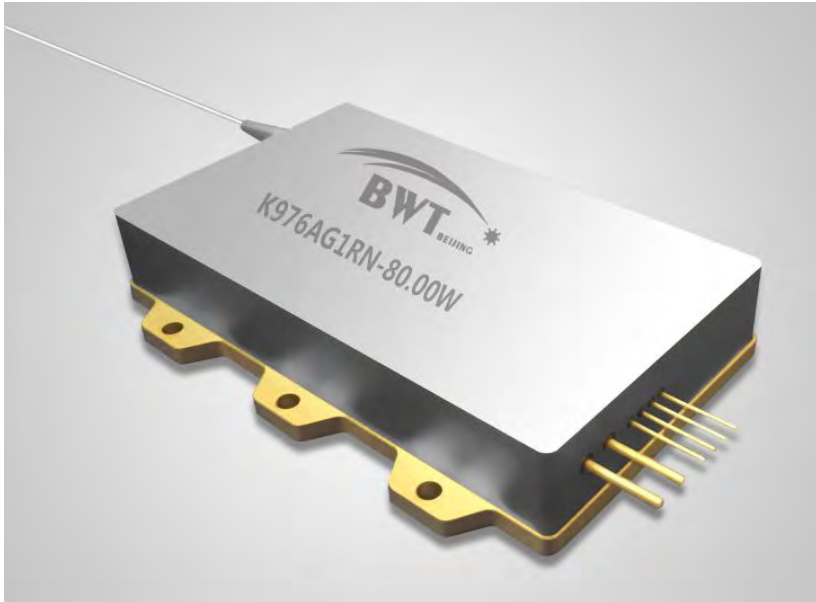


LASER LAB SOURCE
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976nm 80W Wavelength-Stabilized High Brightness Fiber Coupled Diode Laser K976AG1RN-80.00W



Features:

- ◆ 976nm wavelength
- ◆ 80W output power
- ◆ 105 μ m fiber core diameter
- ◆ 0.15N.A.
- ◆ Narrow bandwidth $\Delta\lambda < 1$ nm
- ◆ 1040nm-1200nm feedback protection

Applications:

- ◆ Fiber laser pumping

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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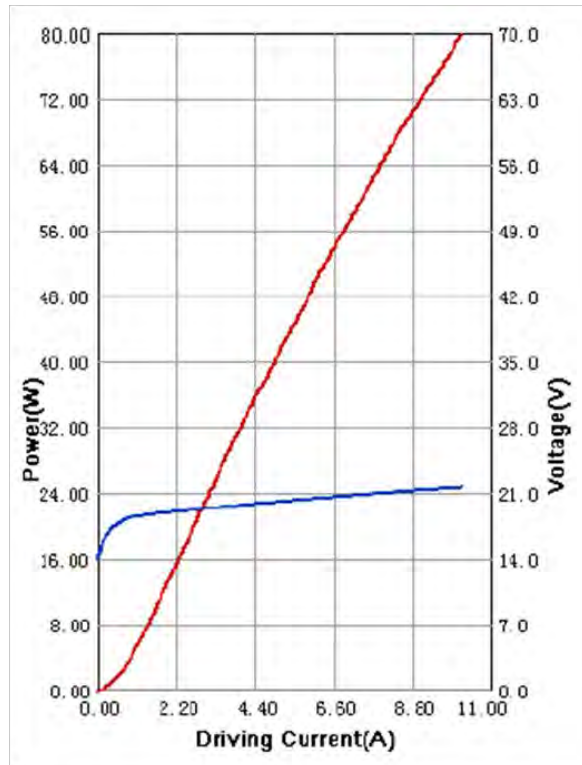
Specifications(25°C)		Symbol	Unit	K976AG1RN-80.0W		
				Minimum	Typical	Maximum
Parameter⁽¹⁾	CW Output Power	P_O	W	3	-	-
	Threshold current	I_{th}	A	-	1	-
	Operating current	I_{op}	A	-	-	5.5
	Operating voltage	V_{op}	V	-	-	1.6
	Reverse Voltage	V_{re}	V	-	2.5	-
	Slope Efficiency	η	W/A	-	0.85	-
	Electrical-to-Optical Efficiency	PE	%	40	-	-
	Center wavelength	λ_c	nm	975.5	-	976.5
	Spectral width(FWHM)	$\Delta\lambda$	nm	-	0.5	-
	Back reflection wavelength Range	λ	nm	1040	-	1200
	Back reflection isolation	-	dB	-	30	-
	Wavelength Shift with Temperature	-	nm/°C	-	0.02	-
	Light within 0.15NA	-	NA	-	95	-
	Life Time	MTTF	H	-	10000	-
Fiber Date	Buffer diameter	D_{buf}	μm	-	250	-
	Cladding diameter	D_{clad}	μm	-	125	-
	Core diameter	D_{core}	μm	-	105	-
	Numeric aperture	NA	NA	-	0.22	-
	Fiber length ⁽²⁾	l_c	m	-	1	-
	Fiber Bend Radius	-	-	-	35	-
Others	ESD	-	V	-	-	500
	Storage temperature	-	°C	-20	-	70
	Lead Soldering Temp	T_{is}	°C	-	-	260
	Lead Soldering Time	T_{is}	sec	-	-	10
	Operating case temperature	T_{op}	°C	25	-	30
	Relative Humidity	-	%	15	-	75

(1) Data measured under operation output at 80W.

(2) Other fibers available upon request.

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Characteristics



Typ. spectrum

