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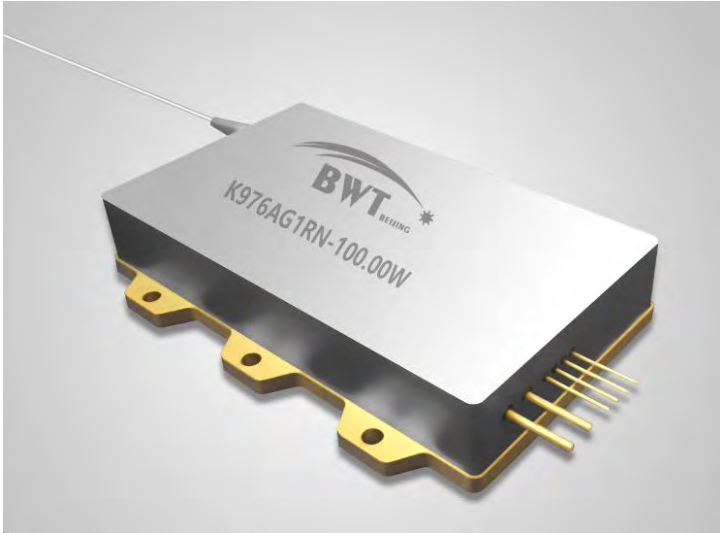


**LASER LAB SOURCE**  
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## 976nm 100W Wavelength-Stabilized High Brightness Fiber Coupled Diode Laser K976AG1RN-100.0W



### Features :

- ◆ 976nm wavelength
- ◆ 100W output power
- ◆ 105 $\mu$ 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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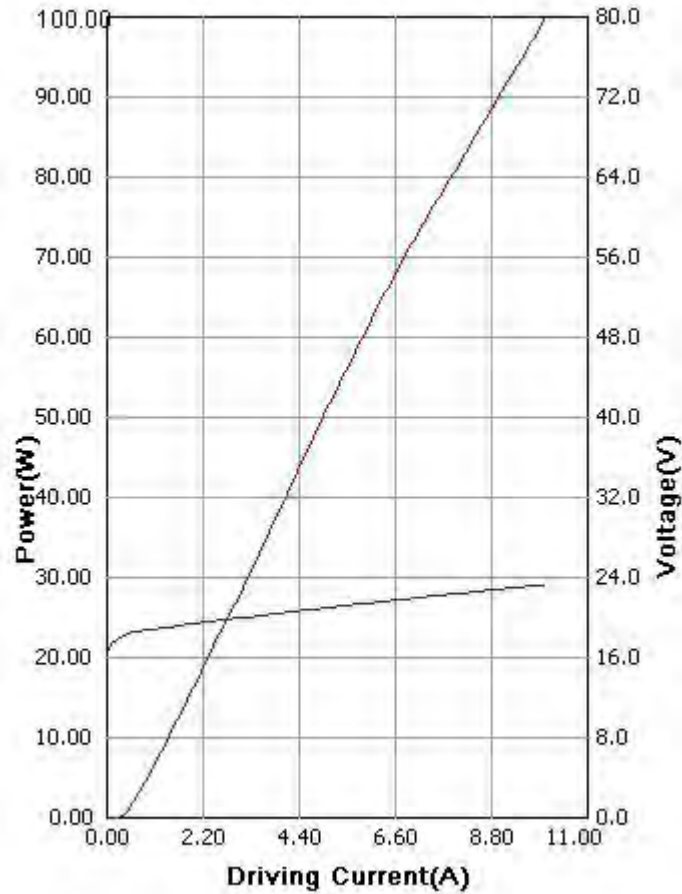
	Specifications(25°C)	Symbol	Unit	K976AG1RN-100.0W		
				Minimum	Typical	Maximum
<b>Parameter<sup>(1)</sup></b>	CW Output Power	P <sub>O</sub>	W	100	-	-
	Threshold current	I <sub>th</sub>	A	-	0.5	-
	Operating current	I <sub>op</sub>	A	-	-	10.5
	Operating voltage	V <sub>op</sub>	V	-	-	24
	Reverse Voltage	V <sub>re</sub>	V	-	35	-
	Slope Efficiency	η	W/A	-	11	-
	Electrical-to-Optical Efficiency	PE	%	48	-	-
	Center wavelength	λ <sub>c</sub>	nm	975.5	-	976.5
	Spectral width(FWHM)	Δλ	nm	-	1	-
	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	-
<b>Fiber Date</b>	Buffer diameter	D <sub>buf</sub>	μm	-	250	-
	Cladding diameter	D <sub>clad</sub>	μm	-	125	-
	Core diameter	D <sub>core</sub>	μm	-	105	-
	Numeric aperture	NA	NA	-	0.15	-
	Fiber length <sup>(2)</sup>	l <sub>c</sub>	m	-	1	-
	Fiber Bend Radius	-	-	-	35	-
<b>Others</b>	ESD	-	V	-	-	500
	Storage temperature	-	°C	-20	-	70
	Lead Soldering Temp	T <sub>is</sub>	°C	-	-	260
	Lead Soldering Time	T <sub>is</sub>	sec	-	-	10
	Operating case temperature	T <sub>op</sub>	°C	25	-	30
	Relative Humidity	-	%	15	-	75

(1) Data measured under operation output at 100W.

(2) Other fibers available upon request.

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Characteristics



Typ. spectrum

