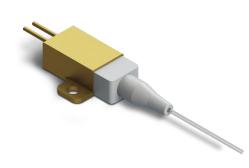


976nm 3W Wavelength Stabilized Fiber Coupled Diode Laser K976AB2RN-3.000WN0N-10522F10ENA



Features:

- 976±0.5nm wavelength locked
- 3W output power
- 105µm fiber core diameter
- 0.22 NA
- Narrow bandwidth △λ≤0.7nm
- 1020nm~1200nm feedback protection

Applications:

Fiber laser pumping

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, introducing European quality standards, and taking a solid step for the internationalization of R&D, production and technological innovation.

Up to now, BWT has traded more than 10 million lasers worldwide. BWT's products are available in more than 70 countries and regions, applications involving industry, medical, commercial, scientific research, information and many other fields.

Version number	Change content	Change date		
00	First edition	2021.11.02		

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Specifications(25°C)		Symbol	Unit	K976AB2RN-3.000W		
				Minimum	Typical	Maximum
	CW Output Power	Po	W	3	-	-
	Center Wavelength	λς	nm	976±0.5		
Optical Data ⁽¹⁾	Spectral Width(FWHM)	Δλ	nm	-	-	0.7
	Wavelength Shift with Temperature	$\Delta\lambda/\Delta T$	nm/°C	-	0.02	-
	Wavelength Shift with Current	Δλ/ΔΑ	nm/A	-	0.03	-
	Electrical-to-Optical Efficiency	PE	%	-	50	-
	Operating Current	l _{op}	A	-	4	5
Electrical Data	Threshold Current	I _{th}	A	-	0.9	-
	Operating Voltage	Vop	V	-	1.6	1.8
	Slope Efficiency	η	W/A	-	1	-
	Core Diameter	D _{core}	μm	-	105	-
	Cladding Diameter	D _{clad}	μm	-	125	-
	Numeric Aperture	NA	-	-	0.22	-
Fiber Data	Fiber Length	Lf	m	-	1	-
	Fiber Loose Tubing Diameter	-	mm	0.9		
	Minimum Bending Radius	-	mm	50	-	-
	Fiber Termination	-	-	None		
Feedback	Wavelength Range	-	nm	1020~1200		
Isolation	Isolation	-	dB	-	30	-
	ESD	V _{esd}	V	-	-	500
	Storage Temperature ⁽²⁾	T _{st}	°C	-20	-	70
Others	Lead Soldering Temp	T _{ls}	°C	-	-	260
Ouldis	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature ⁽³⁾	T _{op}	°C	20	-	30
	Relative Humidity	RH	%	15	-	75

(1) Data measured under operation output at 3W@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.

(4) Wavelength-Stabilized : Percentage of power in band of 974.5nm to 977.5nm \geq 90%.





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Package Dimensions (mm)

Image: provide state stat

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.
- ◆ 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 middle of the pins. Soldering temperature should be lower than 260 °C and time shorter than 10 second.
- Make sure the fiber output end is properly cleaned before operation of laser. Follow safety protocols to avoid injury when handling and cutting the fiber.

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- Use constant current power supply to avoid surge current during operation.
- Laser diode must be used according to the specifications.
- Laser diode must work with good cooling.
- \blacklozenge Operation temperature ranges from 20 $^\circ\!\!\mathbb{C}$ to 30 $^\circ\!\!\mathbb{C}$.
- ♦ Storage temperature ranges from -20°C to +70°C.

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