
**Features:**

- ◆ Wavelength 976nm
- ◆ Output power 30W
- ◆ Fiber core 105µm
- ◆ N.A. 0.22 NA
- ◆ Reflection protection range 1020~1200nm

**Applications:**

- ◆ Pumping

**976nm 30W Fiber Coupled Semiconductor Laser**
**RPK976DAHRN-30.00WN0N-10522F10ENA**

Specifications (25°C)		Symbol	Unit	RPK976DAHRN-30.00W		
				Mini	Typical	Max.
Fiber data <sup>(1)</sup>	CW output power	$P_o$	W	30	-	-
	Central Wavelength	$\lambda_c$	nm	976±3		
	Spectral width(FWHM)	$\Delta\lambda$	nm	-	-	6
	Wavelength shift with Temperature	$\Delta\lambda/\Delta T$	nm/°C	-	0.3	-
	Wavelength shift with current	$\Delta\lambda/\Delta A$	nm/A	-	0.6	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	50	-
	Threshold Current	$I_{th}$	A	-	1.0	-
	Operating Current	$I_{op}$	A	-	12.0	13.0
	Operating Voltage	$V_{op}$	V	-	4.8	6.0
	Slope Efficiency	$\eta$	W/A	-	2.8	-
Fiber data	Core Diameter	$D_{core}$	µm	-	105	-
	Cladding Diameter	$D_{clad}$	µm	-	125	-
	Numeric Aperture	NA	-	-	0.22	-
	Fiber length	$L_f$	m	-	1.0	-
	Fiber Jacket	-	mm	-	0.9	-
	Bending Radius	-	mm	50	-	-
	Connector	-	-	NA		
Reflection protection	Reflection protection	-	nm	1020-1200		
	Isolation	-	dB		30	
others	ESD	$V_{d\ es}$	V	-	-	500
	Storage Temp (2)	$T_{st}$	°C	-20	-	70
	Lead Soldering Temp	$T_{ls}$	°C	-	-	260
	Lead Soldering Time	$t$	sec	-	-	10
	Operating Case Temperature (3)	$T_{op}$	°C	20	25	30
	Relative Humidity	RH	%	15	-	75

(1) All data are tested under the condition of output power 10W@25°C;

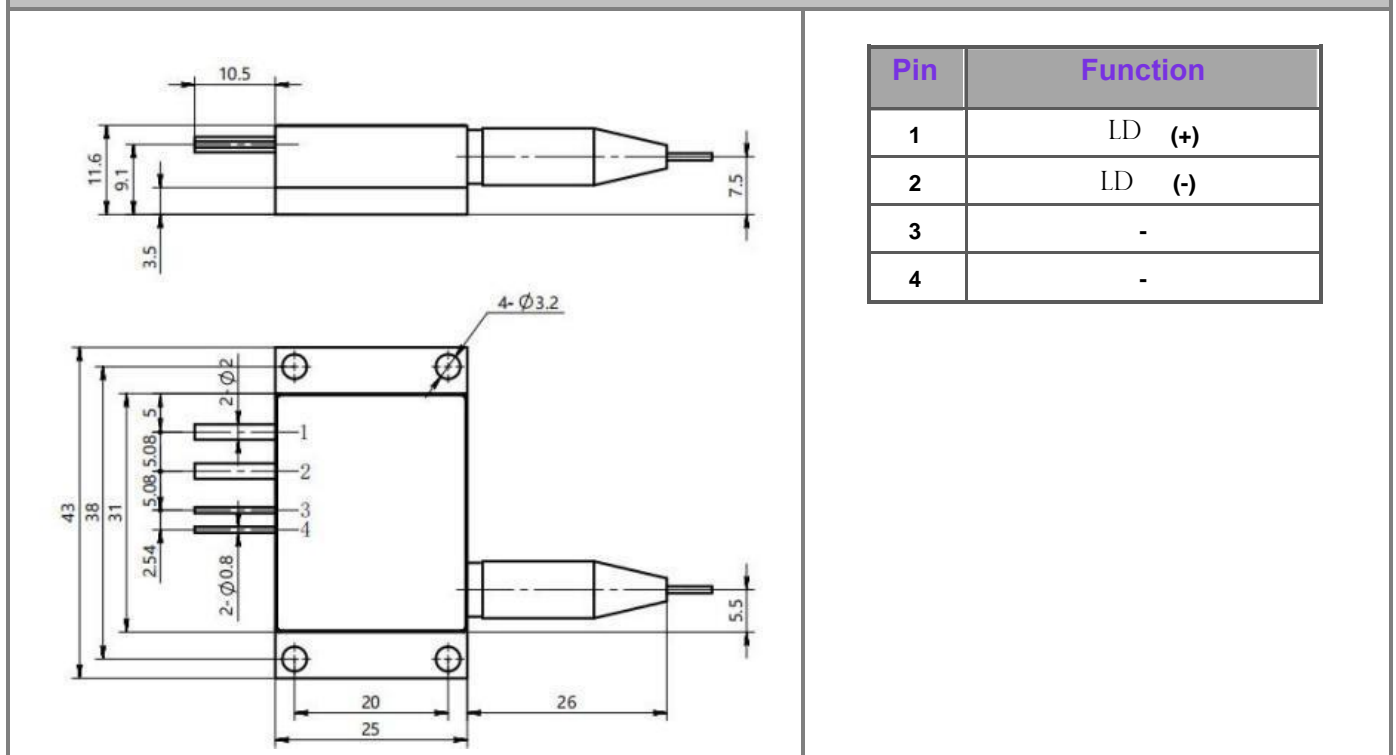
(2) Please store and use under non-condensing conditions;

(3) The operating temperature refers to the base plate temperature. The acceptable operating temperature range is 15°C~35°C, but the performance may be slightly different at different temperatures.

## 976nm 30W Fiber Coupled Semiconductor Laser

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### Package Dimensions (mm)



### OPERATING NOTES

- ◆ Anti-static measures must be taken during transportation, storage, and use. During transportation and storage, short circuits must be connected between pins for protection.
- ◆ For lasers with an operating current above 6A, please use welding to connect the leads. The welding point should be as close to the middle of the pin as possible, the temperature should be lower than 260°C, and the welding time should be less than 10 seconds.
- ◆ Before working on the laser, ensure that the fiber output end has been properly cleaned. When handling and cutting fiber optics, follow safety protocols to avoid injury.
- ◆ Use constant current power supply to avoid surges during work.
- ◆ Should be used under rated current and rated power.
- ◆ Good heat dissipation must be ensured when the laser is working.
- ◆ Working temperature 15°C~35°C.
- ◆ Storage temperature -20°C~+70°C.

