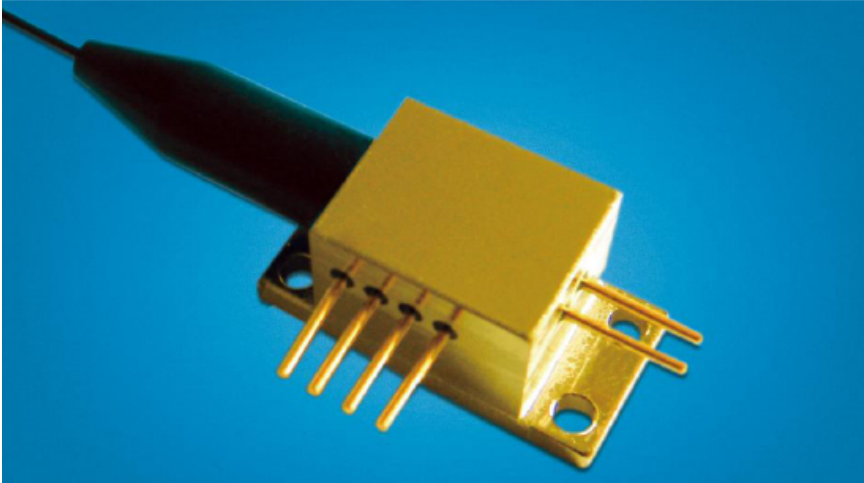


S98S06F-3W

# Product Information



**Key Features:**

- ◆ 3W output power
- ◆ 105 $\mu$ m fiber core diameter
- ◆ 0.22NA
- ◆ 976nm wavelength

**Applications:**

- ◆ Laser pumping
- ◆ Medical use
- ◆ Scientific



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## 976nm Fiber-Coupled Diode Laser

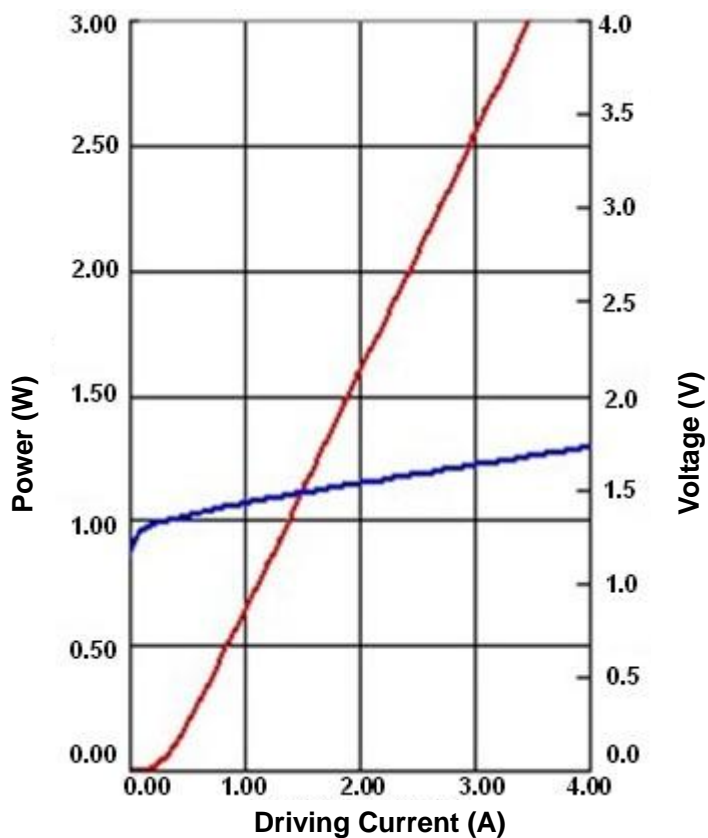
Specifications (25°C)		Symbol	Unit	K98S06F-3.00W
Optical data	CW-output power	$P_o$	W	3
	Center wavelength	$\lambda_c$	nm	976
	Tolerance of $\lambda$	-	nm	$\pm 3, \pm 10$
	Spectral width (FWHM)	$\Delta\lambda$	nm	<3
	Temperature drift of $\lambda$	-	nm/°C	~0.3
Fiber data <sup>(1)</sup>	Fiber core diameter	$W_c$	$\mu\text{m}$	105, 200
	Numerical aperture	NA	-	0.22
	Fiber connector	-	-	SMA-905
Electrical data	Operation current	$I_{op}$	A	4.0
	Threshold current	$I_{th}$	A	0.4
	Conversion efficiency	$\eta$	%	30~40
	Slope efficiency	$\eta_D$	W/A	0.9~1.0
	Operation voltage	$V_{op}$	V	1.8
	Reverse voltage	$V_{re}$	V	2
PD data	Current	$I_{mo}$	mA	0.2~1.0
Others	Operation temperature	$T_{op}$	°C	10~30
	Storage temperature	$T_{st}$	°C	-20~+80
	Lifetime	MTTF	h	>10,000
	Dimensions (fiber and connector not included)	-	mm	~30.0×12.7×14.8
	Lead soldering temperature	$T_{is}$	°C	260(10 sec.)

(1) Other fibers available.

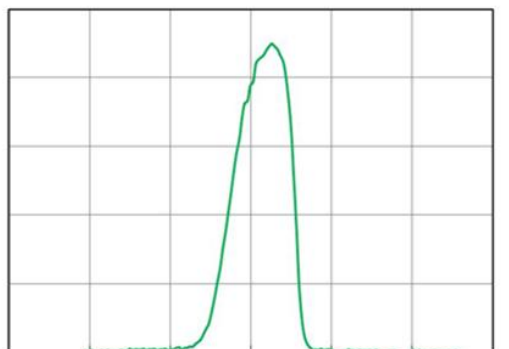
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# 976nm Fiber-Coupled Diode Laser

## Characteristics



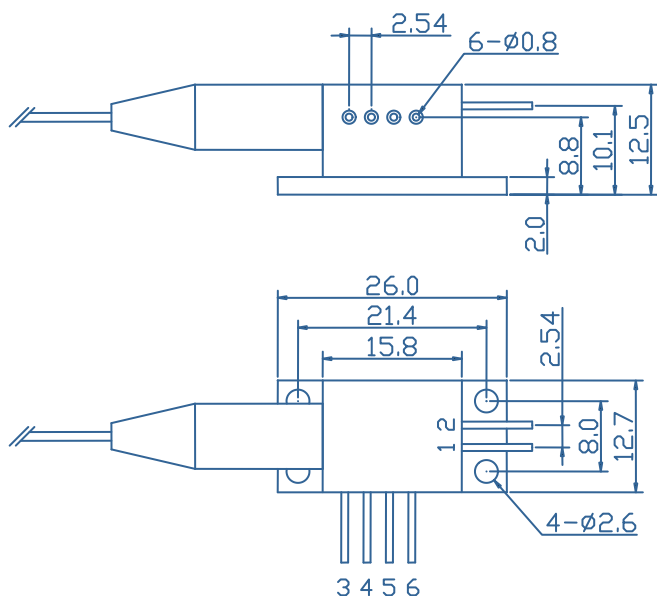
## Typ. spectrum (T=25°C)



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# 976nm Fiber-Coupled Diode Laser

## Package Dimensions (mm)



Pin	Function	Pin	Function
1	LD (+)	4	PD (P)
2	LD (-)	5	无
3	PD (N)	6	无

## 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 diameter should be 300 times greater than the fiber diameter.
- Operation temperature is 10°C~ 30°C.
- Storage: -20°C~ +80°C, all pins short-circuit.

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