

Characteristics
Output Power 55W
Narrow line width<0.5nm
976nm wavelength locked
Fiber Coupling 105μm
Fiber Core Dia. 0.22NA
PD, thermistor optional
Fiber laser feedback protection
Application
Fiber laser pumping

Parameter		Symbol	Typical	Unit
Optical	CW Out Power	P_{op}	55	W
	Center Wavelength	λ	976±0.5	nm
	Spectral Width (90% of Power)	$\Delta\lambda$	<0.5	nm
	Wavelength Shift width Temperature	$\Delta\lambda/\Delta T$	0.02	nm / °C
	Feedback Protection(1030-1100nm)	FP	>40	dB
Electrical	Threshold Current	I_{th}	0.5	A
	Operating current	I_{op}	9.0	A
	Operating Voltage	V_{op}	13.2	V
	Slop Efficiency	η_{es}	6.5	W / A
	Power Conversion Efficiency	η_{ep}	46	%
Fiber	Fiber Core Diameter	d_{core}	105	μm
	Fiber Cladding Diameter	d_{clad}	125	μm
	Fiber Buffer Diameter	d_{buffer}	250	μm
	Numerical Aperture	NA	0.22	-
	Fiber Length	L	1.0	m

Changchun New Industries Optoelectronics Tech. Co., Ltd
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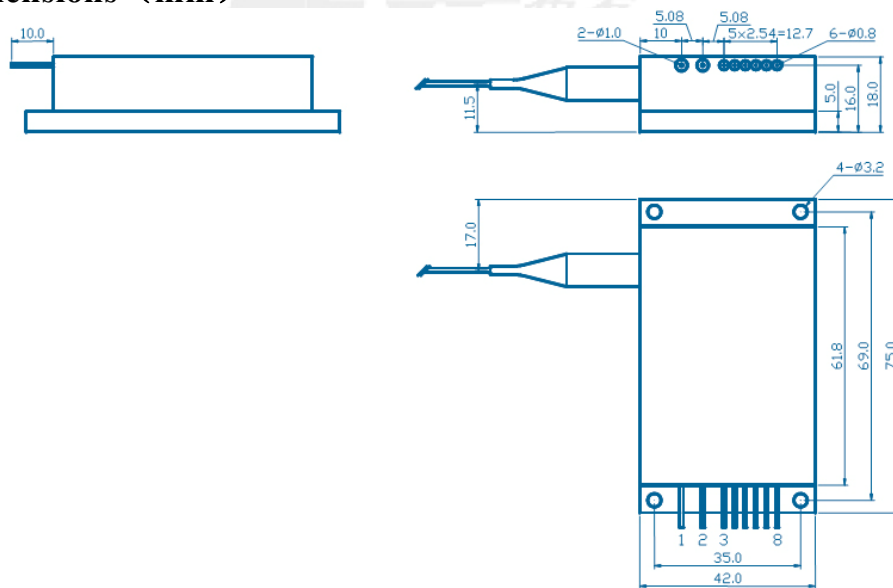
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Other Parameters

Parameter	Operating Temperature/°C	Operating Relative Humidity/%	Storage Temperature/°C	Storage Relative Humidity/%	Lead Soldering Temperature, 10s max/°C
Min	10	-	-20	-	-
Max	40	75	80	90	250

Package Dimensions (mm)



Pins and Functions

Pin	Function	Pin	Function
1	LD(+)	5	Thermistor
2	LD (-)	6	Thermistor
3	PD(N)	7	Aiming Beam LD(+)
4	PD(P)	8	Aiming Beam LD(-)



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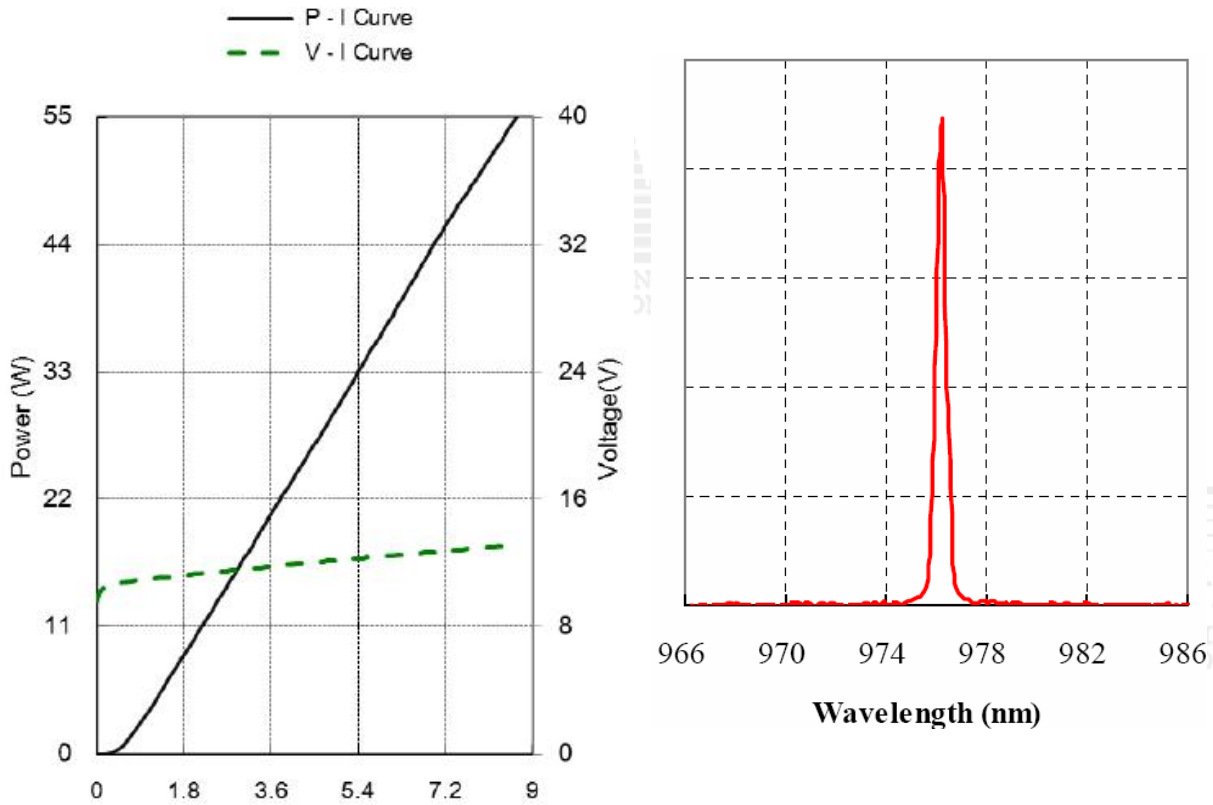
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976nm Diode Laser Characteristics (25°C)



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