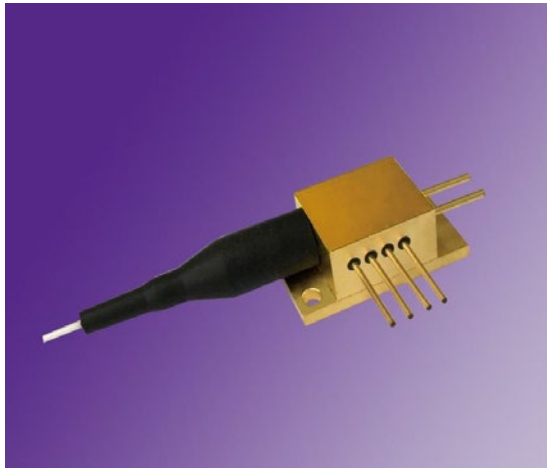


976nm 7W Wavelength-stabilized Laser Diode Module

R976±0.5-7WF-R6-G



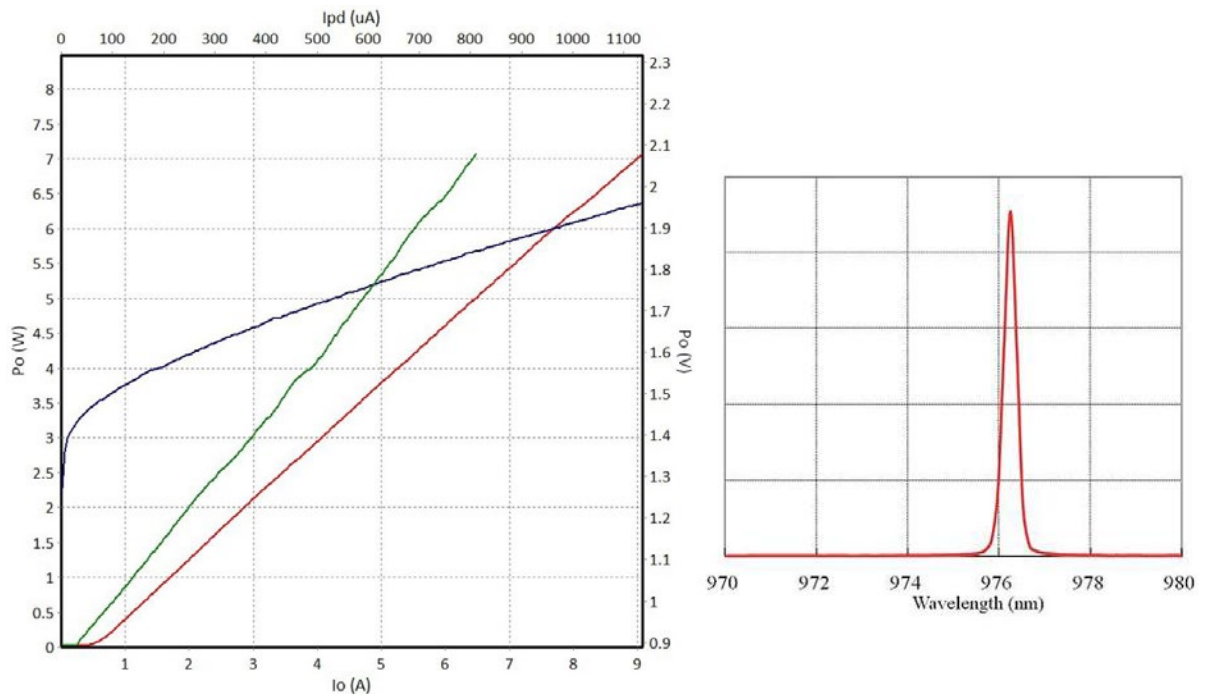
Feature

Output power: 7W
Wavelength: 976±0.5nm
Fiber core: 105 μm, 0.22NA
Feedback protection
Wavelength stability
Current range: 2~9A
Temperature range: 22~26°C

Application

Laser pumping
Material processing

976nm 7W Characteristics (25°C)



Typical Device Performance(25°C)

Parameter	Symbol	Typical Value	Unit	
		R976±0.5-7WF-R6-G		
Optical	CW Output Power	Pop	7	W
	Center Wavelength	λ_c	976±0.5	nm
	Spectral Width	$\Delta\lambda$	<0.5	nm
	Temperature drift of wavelength	$\Delta\lambda / \Delta T$	0.03	nm/°C
	Feedback Protection	FP	>40	dB
Electrical	Threshold Current	I_{th}	0.5	A
	Operating Current	I_{op}	9	A
	Operating Voltage	V_{op}	1.8	V
	Slope Efficiency	η_{es}	0.82	W/A
	Thermistor	R_t	10±5%/3450	kΩ/β(25°C)
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	-
	Connector	-	FC/PC,ST,SMA905	-

Other Parameters

Parameter	Operating Temperature /°C	Operating Relative Humidity /%	Storage Temperature /°C	Storage Relative Humidity /%	Lead Soldering Temperature(max/°C)
Min	10	-	-20	-	-
Max	30	75	70	90	250(10Sec.)

Package Dimensions (mm)

Pin	Function
1	Laser (+)
2	Laser (-)
3	Thermistor
4	Thermistor
5	PD(N)
6	PD(P)

