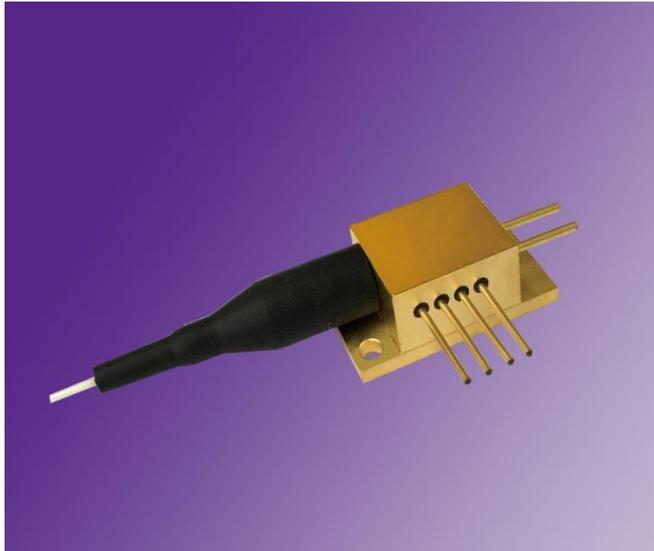




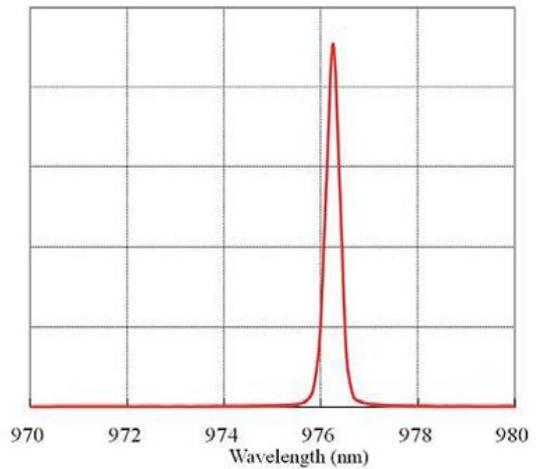
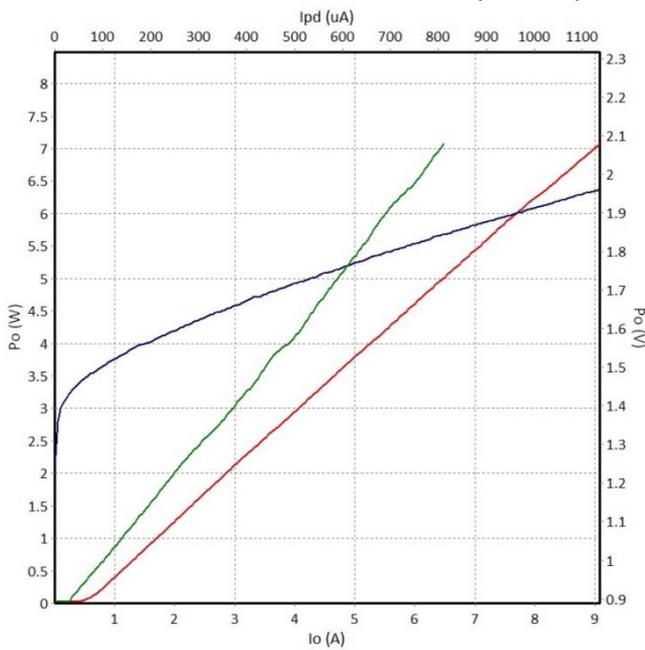
976nm 7W Wavelength-stabilized Laser Diode Module

R976±0.5-7WF-R6-G



Feature
Output power: 7W
Wavelength: 976±0.5nm
Fiber Core: 105µm
Numerical aperture : 0.22NA
Anti-reflection protection
Wavelength stability
Current range: 2-9A
Temperature range: 22-26°C
Application
Pumping
Material processing

976nm 7W Characteristics (25°C)





Typical Device Performance(25°C)

Parameter		Symbol	Typical Value	
			R976±0.5-7WF-R6-G	
				Unit
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
	Anti-Reflection protection(1030-1100nm)	FP	>40	dB
Electrical	Threshold Current	I _{th}	0.5	A
	Operating Current	I _{op}	9	A
	Operating Voltage	V _{op}	1.8	V
	PD Parameter	IPD	<2000	-
	Thermistor	R _t	10±5%/3450	kΩ / β (25°C)
	Slope Efficiency	η_{es}	0.82	W/A
Fiber	Fiber Core Diameter	d _{core}	105	μm
	Fiber cladding diameter	d _{clad}	125	μm
	Fiber coating 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)

