



Electro Optical Components, Inc.

5460 Skylane Boulevard, Santa Rosa, CA 95403

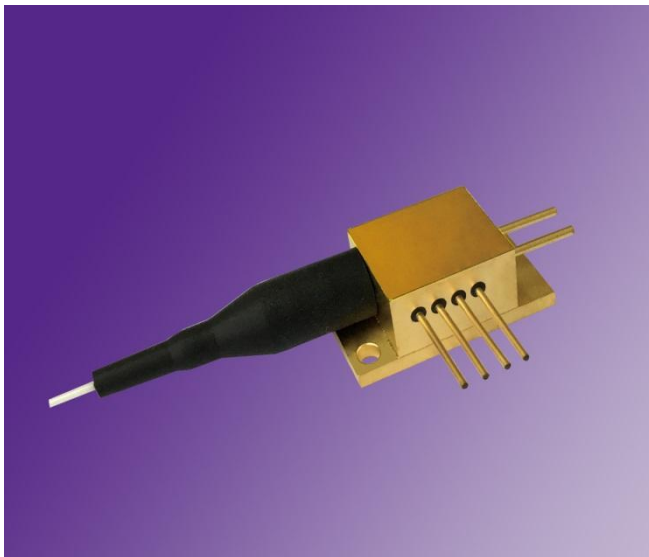
Toll Free: 855-EOC-6300

www.eoc-inc.com | info@eoc-inc.com



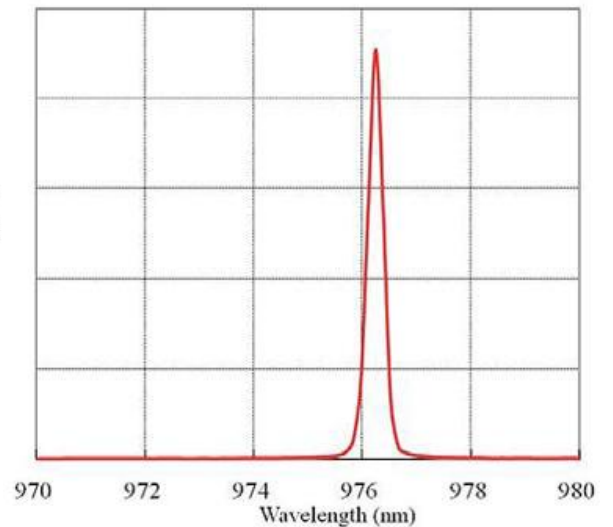
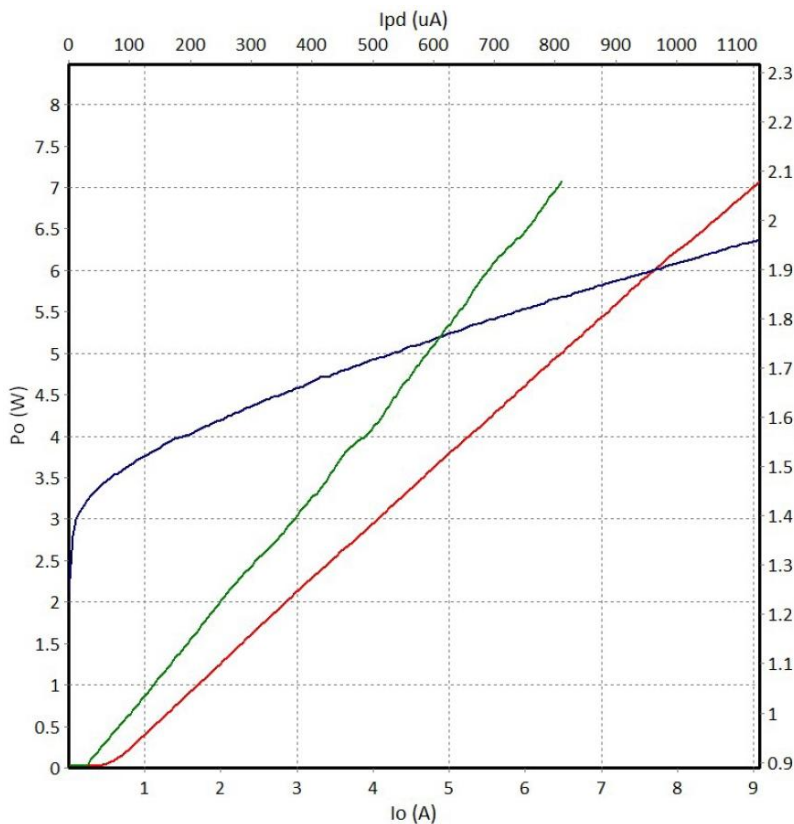
976nm 7W Wavelength-stabilized Laser Diode Module

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	P _{op}	7	W
	Center Wavelength	λ _c	976±0.5	nm
	Spectral Width	Δλ	<0.5	nm
	Temperature drift of wavelength	Δλ / ΔT	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)

