



Electro Optical Components, Inc.

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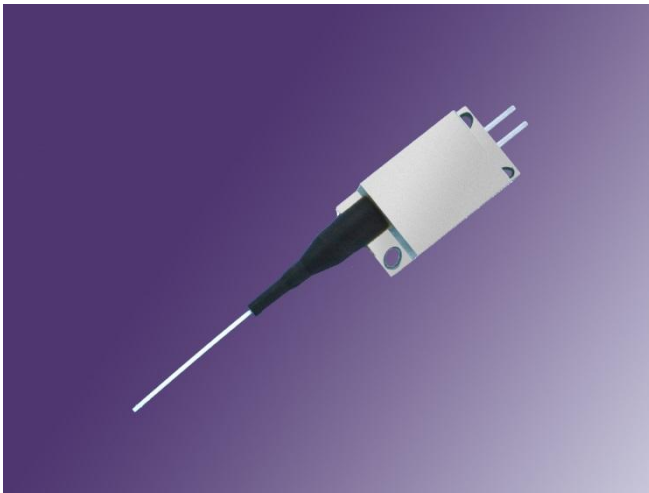
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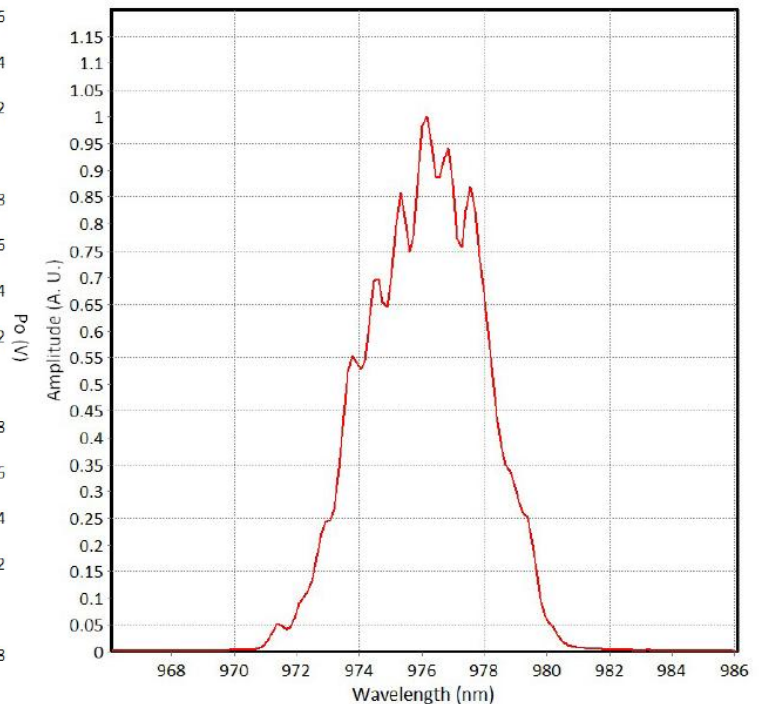
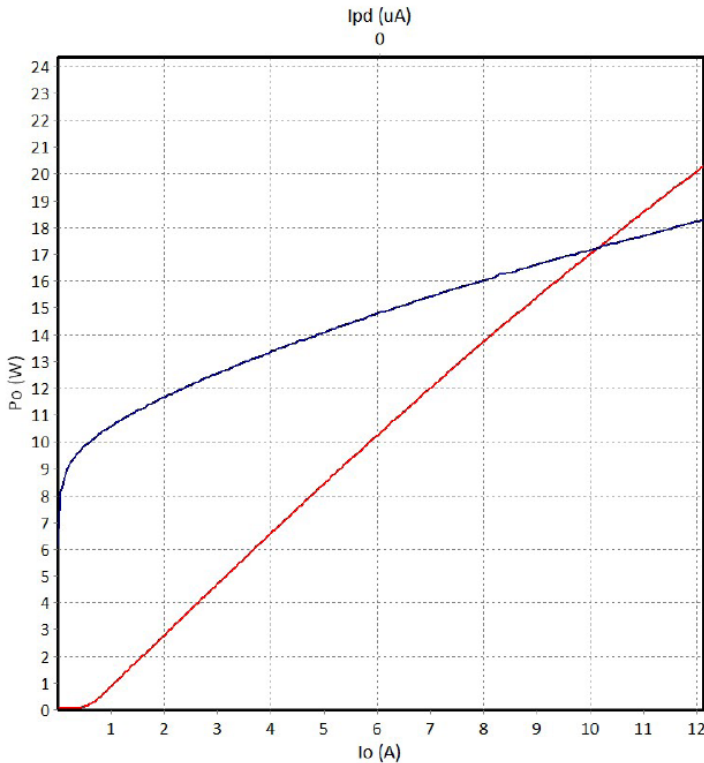
980nm 20W Laser Diode Module

R980±10-20WF-R2



Feature
Output power: 20W
Wavelength: 980±10nm
Fiber core: 105 μm, 0.22 NA
Application
Laser pumping
Material processing

976nm 20W Characteristics (25°C)



Typical Device Performance(25°C)

Parameter		Symbol	Typical Value	Unit
			R980±10-20WF-R2	
Optical	CW Output Power	P_{op}	20	W
	Center Wavelength	λ_c	980±10	nm
	Spectral Width	$\Delta\lambda$	<6	nm
	Temperature drift of wavelength	$\Delta\lambda / \Delta T$	0.3	nm/°C
Electrical	Threshold Current	I_{th}	0.54	A
	Operating Current	I_{op}	12.16	A
	Operating Voltage	V_{op}	3.87	V
	Slope Efficiency	η_{es}	1.7	W/A
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(-)

