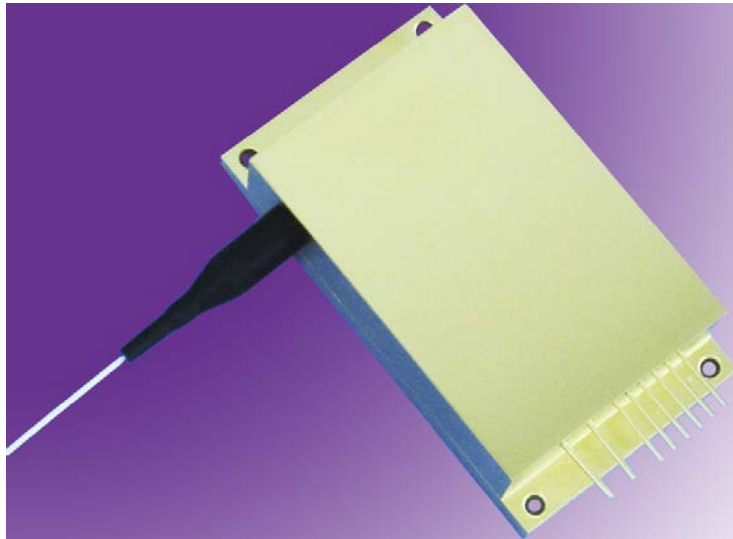




## C-Series High Power Laser Diode Module

**M976±0.5-60-F105/22-C1**



### Features:

High output Power: 60W

Narrow line width<0.5nm

976nm wavelength locked

105µm core 0.22NA multimode optical fiber

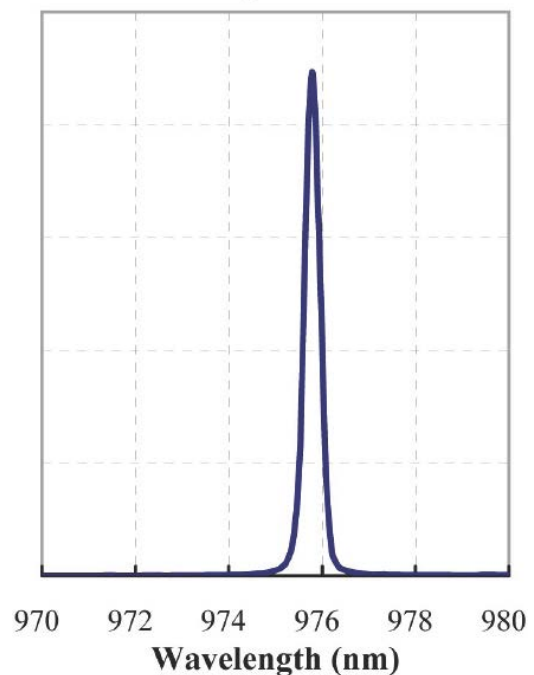
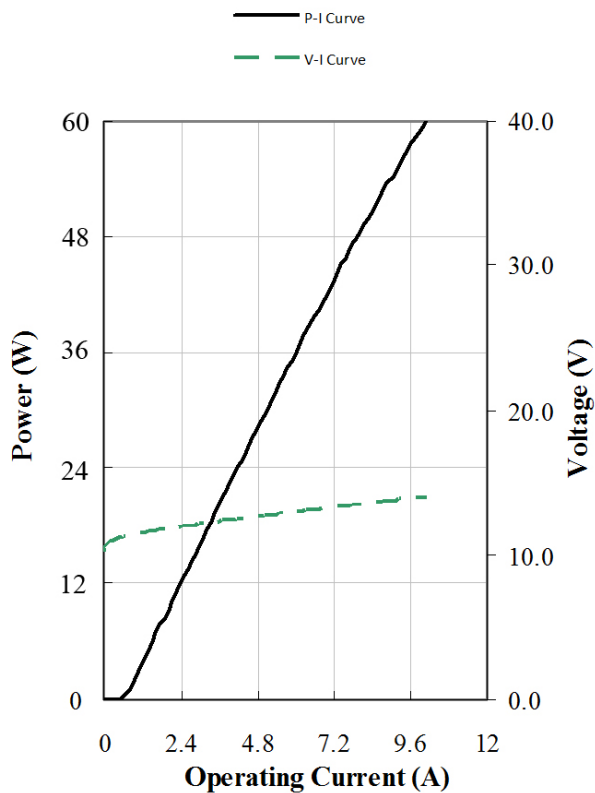
Electrically isolated housing

Fiber laser feedback protection

### Application

Fiber Laser pumping

### 976nm Characteristics (25°C, 60W)



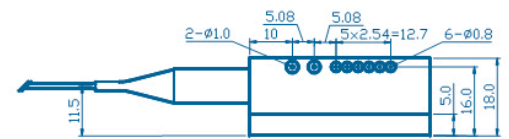
## Typical Device Performance (25°C)

Parameter	Symbol	Typical		Unit
		M976±0.5-60-F105/22-C1		
Optical	CW Output Power	$P_{op}$	60	W
	Center Wavelength	$\lambda_c$	976±0.5	nm
	Spectral Width (90% of Power)	$\Delta\lambda$	<0.5	nm
	Wavelength Shift with Temperature	$\Delta\lambda/\Delta T$	0.02	nm/°C
	Wavelength Shift with Current	$\Delta\lambda/\Delta I_{op}$	0.05	nm / A
	Feedback Protection(1030-1100nm)	FP	>40	dB
Electrical	Threshold Current	$I_{th}$	0.65	A
	Operating Current	$I_{op}$	10	A
	Operating Voltage	$V_{op}$	14	V
	Slope Efficiency	$\eta_{es}$	7.5	W / A
	Power Conversion Efficiency	$\eta_{ep}$	50	%
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

## 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)



Pin	Function	Pin	Function
1	Laser(+)	5	Thermistor
2	Laser(-)	6	Thermistor
3	PD (N)	7	NA
4	PD (P)	8	NA

