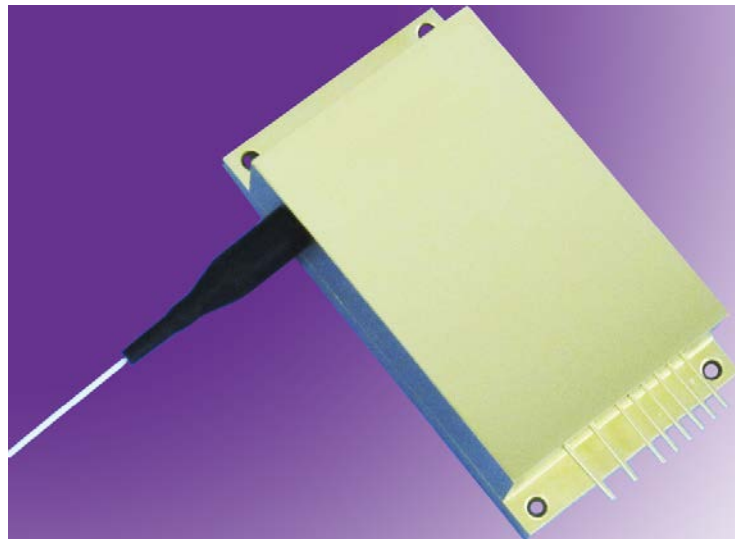




C-Series High Power Laser Diode Module

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

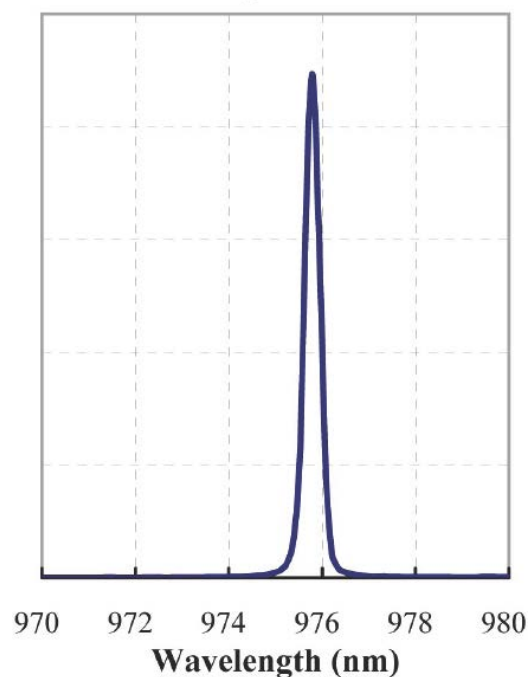
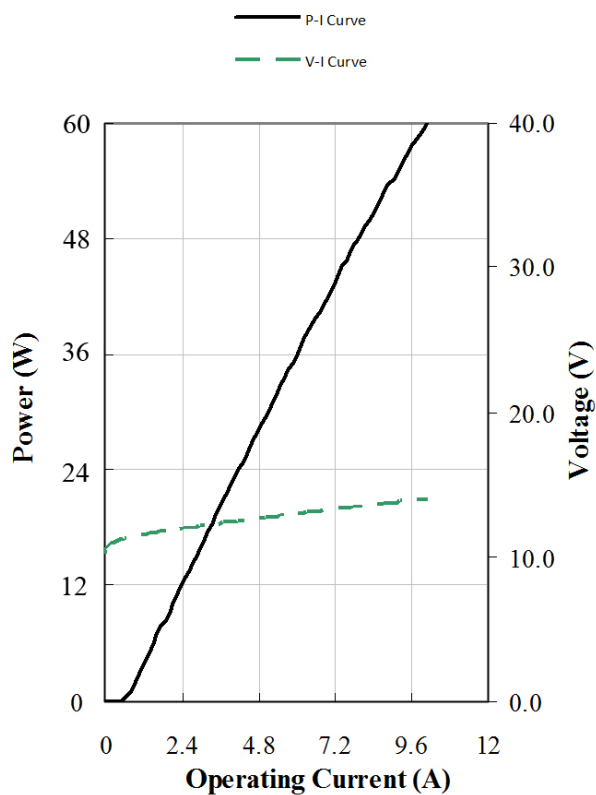
Electrically isolated housing

Fiber laser feedback protection

Application

Fiber Laser pumping

976nm Characteristics (25°C, 60W)



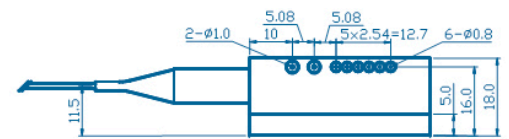
Typical Device Performance (25°C)

Parameter	Symbol	Typical		Unit
		M976±0.5-60-F105/22-C1		
Optical	CW Output Power	P_{op}	60	W
	Center Wavelength	λ_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	η_{es}	7.5	W / A
	Power Conversion Efficiency	η_{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

