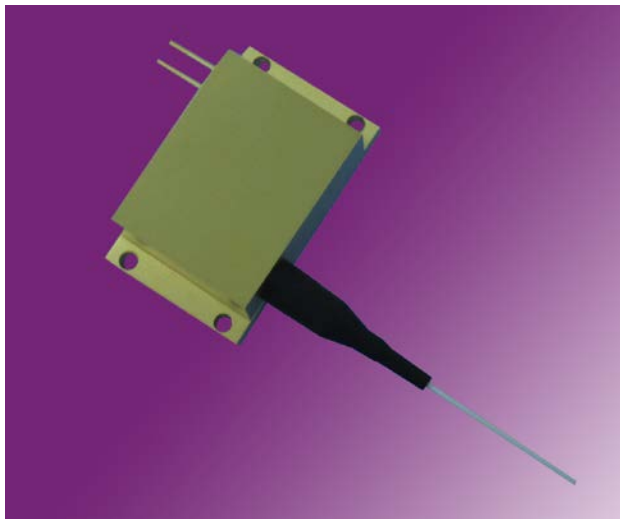




T-Series 976nm Wavelength locked High Power Laser Diode Module

M976±0.5-35-F105/22-T4S



Features:

Narrow line width < 0.5nm

976nm wavelength locked

Output Power: 35W

105µm core 0.22NA multimode optical fiber

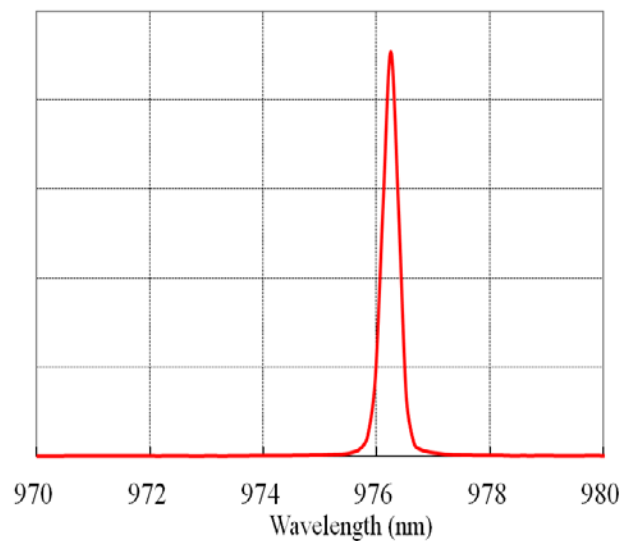
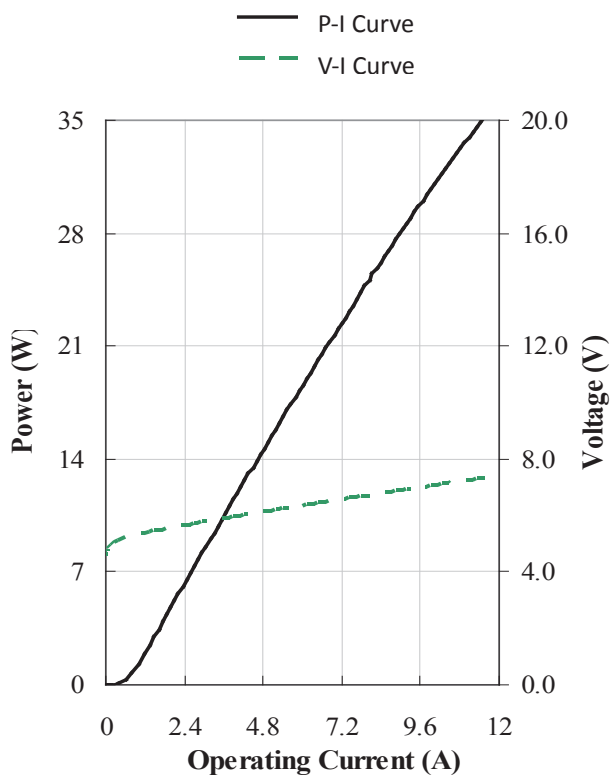
Fiber laser feedback protection

Electrically isolated housing

Applications:

Fiber laser pumping

976nm Wavelength Locked Characteristics (25°C)



Typical Device Performance (25°C)

Parameter		Symbol	Typical	Unit
Optical	CW Output Power	P_{op}	35.0	W
	Center Wavelength	λ	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}	12.0	A
	Operating Voltage	V_{op}	7.0	V
	Slope Efficiency	η_{es}	3.2	W / A
	Power Conversion Efficiency	η_{ep}	42	%
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	-	-
Min	40	75	80	90	250

Package Dimensions (mm)

Pin	Function
1	Laser(+)
2	Laser(-)

