



FBLD-976-50W-FC105-0.15-VBG-6Pin

Wavelength Stabilized Fiber-coupled Laser Diode

Features:

CW Output Power 50W
Fiber Core Diameter 105µm / NA 0.15
Wavelength Stabilized (VBG)
Feedback Protection Filter

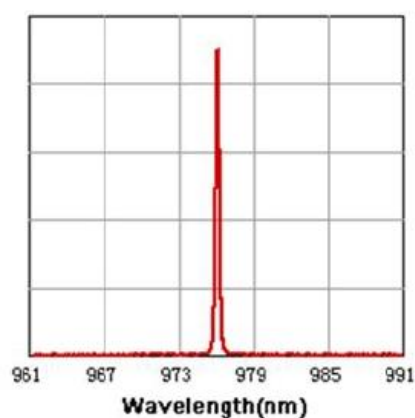
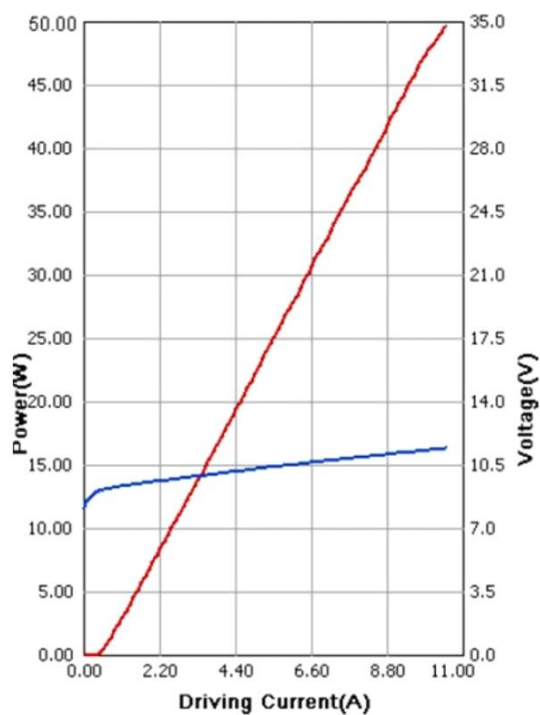
Options:

Photodiode / Thermistor

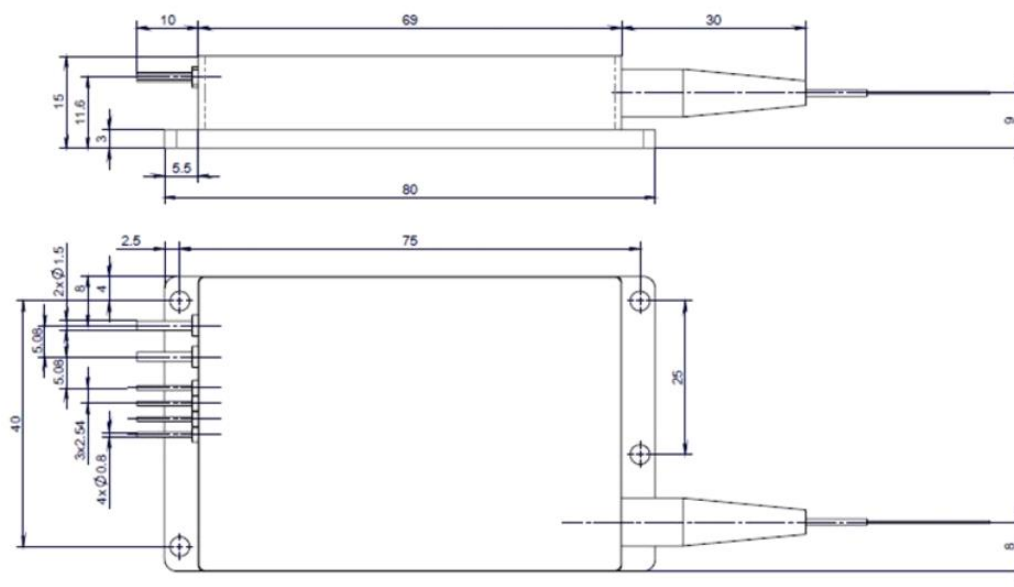
Optical Data	
CW Output Power (W)	50
Center Wavelength λ (nm)	976
Tolerance of λ (nm)	± 0.5
Spectral Width (FWHM) (nm)	<1
Temperature Drift of λ (nm/°C)	< 0.02
Current Drift of λ (nm/A)	< 0.05
Fiber Data	
Fiber Core / Clad Diameter (µm)	105 / 125
Numerical Aperture (NA)	0.15
Connector	None (SMA-905 optional)
Fiber Length (m)	1±0.1
Electrical Data	
Threshold Current (A)	0.8
Operation Current (A)	7-10
Conversion Efficiency (%)	45
Slope Efficiency (W/A)	5.4
Operation Voltage (V)	12.6
Reverse Voltage (V)	17.5
Feedback Isolation	
Wavelength Bandwidth (nm)	1030 – 1200
Isolation (dB)	>30

Temperature Conditions	
Case Operation Temperature (°C)	25 - 35
Storage Temperature (°C)	-20 - 70
Other Parameters	
Thermistor (k Ω) / β (25°C)	10 $\pm$ 5% / 3477
Laser Head Dimensions (mm) (Fiber and connector not included)	80 x 48 x 15
Lead Soldering Temperature (°C)	260 (10s)

Characteristics



Package Dimensions (mm)



Pin	Function
1	LD (+)
2	LD (-)
3	Thermistor*
4	Thermistor*
5	PD (N) *
6	PD (P) *

* Optional