

LASER DIODE FLX-1620-1000M-150



FLX-1620-1000M-150 is a multimode semi-conductor laser diode with 1000mW CW output power at 1620nm Available packages are B-Mount, C-Mount, TO-3 can and HHL. It is suitable for the use in various opto-electronic applications.

Key Features

- High Output Power
- High Efficiency
- Custom Packaging Available
- Custom Wavelengths Available

Specifications

Optical and Electrical Characteristics (T = 20°C, P = 1000mW):

Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Power	P_{out}	-	1000	-	mW
Wavelength	λ	1600	1620	1640	nm
Spectrum (FWHM)	$\Delta\lambda$	-	7.0	-	nm
Threshold Current	I_{th}	-	1000	-	mA
Forward Current	I_f	-	6100	-	mA
Forward Voltage	V_f	-	1.2	-	V
Beam Divergence Parallel	$\Theta_{ }$	-	7	-	° (FWHM)
Beam Divergence Perpendicular	Θ_{\perp}	-	40	-	° (FWHM)
Polarization		-	TE	-	
Emitter Size		-	150	-	μm

Packages

B-Mount

Features include:

- Very Small Footprint
- Requires Soldering to Heatsink
- Material - Copper Tungsten (CuW)
- Fast Axis Lensing Optional



C-Mount

Features include:

- Designed for up to 4mm cavity length laser diodes
- Small Footprint with Screw Mounting
- Material - Copper (OFHC)
- Fast Axis Lensing Optional



TO-3 (without TEC)

Features include:

- Hermetically Sealed Windowed Package
- Mounting to Heatsink with Screws
- Internal Thermistor and Photodiode Optional
- Header Material - Copper
- Fast Axis Lensing Optional



High Heat Load (HHL) Package

Features include:

- Hermetically Sealed Windowed Package
- Mounting to Heatsink with Screws
- Internal Peltier Cooler (TEC)
- Internal Thermistor and Photodiode
- Header Material - Copper
- Fast Axis Lensing Optional

