



LASER DIODE FLX-645-280M-FC100

FLX-645-280M-FC100 is a fiber-coupled multimode semiconductor laser diode with 280mW CW output power at 645nm. Available packages are HHL, Butterfly, 9mm and 2 Pin. It is suitable for the use in various opto-electronic applications.

Key Features

- High Output Power / Brightness
- High Efficiency
- Many Packages and Fiber Options Available
- Custom Packaging Available
- Custom Wavelengths Available

Specifications

Optical and Electrical Characteristics (T = 20°C, P = 280mW):

Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Power	P_{out}	-	280	-	mW
Wavelength	λ	642	645	648	nm
Spectrum (FWHM)	$\Delta\lambda$	-	1	-	nm
Threshold Current	I_{th}	-	500	-	mA
Forward Current	I_f	-	1050	-	mA
Forward Voltage	V_f	-	2.1	-	V
Slope Efficiency	$\Delta P/\Delta I$	-	0.51	-	W/A
Fiber Core Diameter	F_{ϕ}	-	100	-	μm
Fiber Core Diameter (9mm)	F_{ϕ}	-	250	-	μm

Packages

Fiber Coupled High Heat Load (HHL) Package

Features Include:

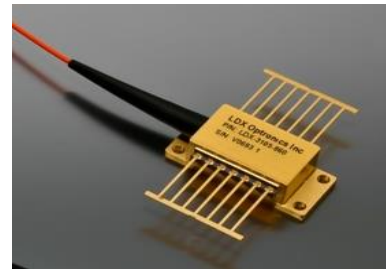
- Hermetically Sealed Package
- Fiber Pigtail with SMA Connector
- Mounting to Heatsink with Screws
- Internal Peltier Cooler (TEC)
- Internal Thermister and Photodiode
- Header Material – Copper



Fiber Coupled Butterfly Package (Uncooled)

Features Include:

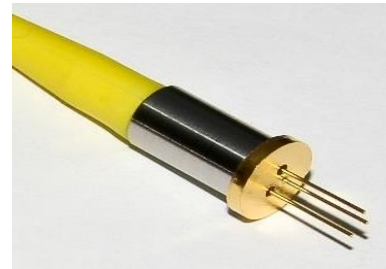
- Industry Standard Package
- Hermetically Sealed Package
- Fiber Pigtail with SMA Connector
- Header Material - Copper
- Internal Photodiode Optional
- Isolated Package Optional



Fiber Coupled 9mm Package

Features Include:

- Industry Standard Package
- Hermetically Sealed Package
- Fiber Pigtail with SMA Connector
- Header Material - Copper
- Internal Photodiode Optional
- Isolated Package Optional



Fiber Coupled 9mm SMA Package

Features Include:

- Industry Standard Package
- Hermetically Sealed Package
- SMA connector for Detachable Fiber
- Header Material - Copper
- Internal Photodiode Optional
- Isolated Package Optional



Fiber Coupled 2-Pin Package

Features Include:

- Hermetically Sealed Package
- Fiber Pigtail with SMA Connector
- Mounting to Heatsink with Screws
- Header Material - Copper

