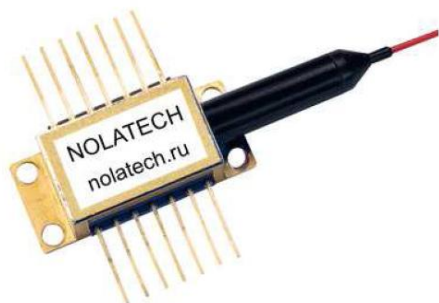


Laser Diode 1310nm 2mW



FPL-1310-14BF-2 is single mode laser diode module designed for optical measurement and communication. The laser is packaged in 14-pin standard butterfly package with monitor photodiode and thermo-electric cooler (TEC). Module is pigtailed with 0,7-1,0 m of single mode polarization maintaining fiber and connectorized by FC/PC connector.

Key Features

- Optical output: 2mW
- Efficient coupling into single mode fiber
- CW or pulsed operation
- SM or PM Fiber (ø0.9mm)
- FC-PC connector
- 14-pin butterfly package
- Internal monitor PD and TEC
- Low power consumption

Optical and electrical characteristics: (T = 25°C)

Item	Symbol	Test condition	Min.	Typ.	Max.	Unit
Output Power	P_f		1	2	3	mW
Forward Voltage	V_F	$P_f=2mW$			2.5	V
Threshold Current	I_{th}			7		mA
Forward Current	I_F	$P_f=2mW$		20		mA
Rise Time	T_r	$P_f=2mW, 20\%-80\%$			150	ps
Fall Time	T_f	$P_f=2mW, 20\%-80\%$			150	ps
Center Wavelength	λ_c	$P_f=2mW$	1290	1310	1330	nm
Spectral Width	$\Delta\lambda$	$P_f=2mW$		2	3	nm
Monitor Current	I_m	$P_f=2mW, V_{RD}=5V$	40		500	μA
PD Dark Current	I_d	$V_{RD}=5V$			0.1	μA
Cooler Voltage	V_c	$I_f=EOL, TC=70^\circ C$			2.7	V
Cooler Current	I_c	$I_f=EOL, TC=70^\circ C$			1.4	A
Thermal Resistance	R_o	$T_{LD}=25^\circ C, B=3900\pm 100K$	9.5	10.0	10.5	k Ω
Extinction Ratio	X_P	$P_f=20mW$	17			dB

