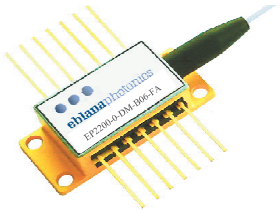
2200nm DM laser

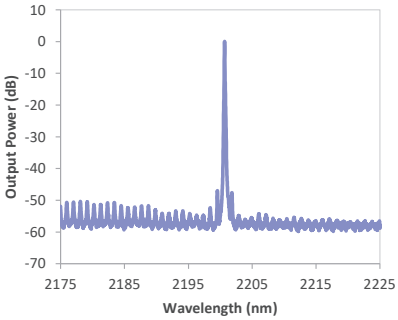
EP2200-DM-B

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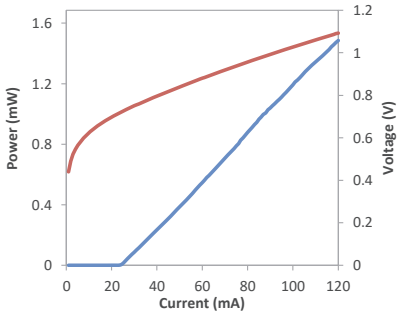


COHERENCE AND STABILITY

Eblana Photonics EP2200-DM-B laser diode, integrate with with internal bias tee circuit, is a cost effective, highly coherent laser source, designed using Eblana's discrete-mode (DM) technology. The device features excellent SMSR and a high modulation bandwidth.



Optical Spectrum at 25 °C



Output power vs bias current at 25°C

ELECTRO-OPTICAL CHARACTERISTICS (T_{SUB} =25°C)

PARAMETER	SYMBOL	UNITS	MIN.	TYPICAL	MAX.	COMMENTS
Available Wavelength Range	λ	nm		2200		
Wavelength tolerance	λ_{spec}	nm	λ-1	λ	λ+1	
Side Mode Supression Ratio	SMSR	dB	30	40	-	
Threshold Current	I_{th}	mA	-	24	30	
Output power in fiber	P_f	mW	0.5	0.8	-	Laser drive current =80mA
Forward Voltage	Vf	V	-	0.9	-	
Temperature Tuning Coefficient	T_λ	nm/°C	-	0.1	-	
Current Tuning Coefficient	I_λ	pm/mA	-	17	-	
Slope Efficiency	SE	mW/mA	0.01	0.02	-	
Thermistor Resistance	R_T	kΩ	9.5	10	10.5	
Thermistor Temp. Coefficient	B	K	-	3892	-	85°C/25°C

Table 1: Electro-optica characteristics

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Dublin, Ireland

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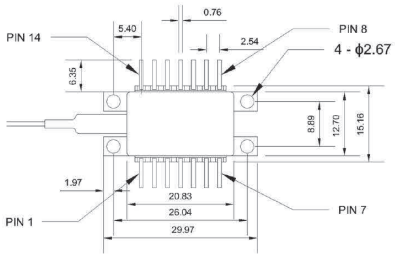
ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	UNITS	MIN.	MAX.
Forward current	I_f	mA	-	120
Forward Voltage	V_f	V	-	2
TEC Current	I_{TEC}	A	-	1.2
Reverse Voltage	V_r	V	-	2
Reverse Voltage PD	V_{rev}	V	-	20
Case Temperature	T_{Case}	◦C	-20	65
Chip Submount Temperature	T_{sub}	◦C	0	50
Storage Temperature	$T_{storage}$	◦C	-40	85

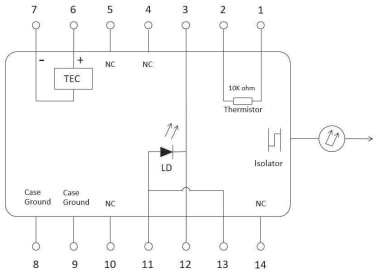
*For T_{sub} < 25°C, Max Case Temperature should be derated to TCase,Max =T_{sub} + 40°C

PACKAGING

The EP2200-DM-B product series is offered in a high speed 14-pin Butterfly package, with internal bias tee circuit. Inquire for other packaging options.



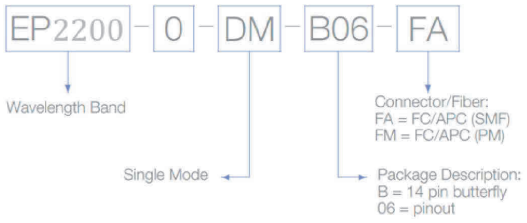
14-pin butterfly schematic



Package pinout configuration

HOW TO ORDER

Construct your part number using the following example and email your order to sales@eblanaphotonics.com, or call +353 1 675 3220.



LASER SAFETY

This is a Class 4 Laser Product as defined by International Standard IEC 60825-1,Edition 2.
Invisible Laser radiation is emitted from the end of the fiber or connector.
Avoid direct eye exposure to the beam. Laser safety labels are not attached to the module due to space limitations but instead are affixed to the outside of the shipping carton



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