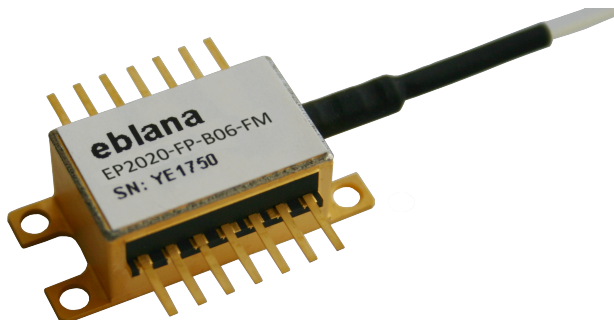


2020nm FP LASER

EP2020-FP-B

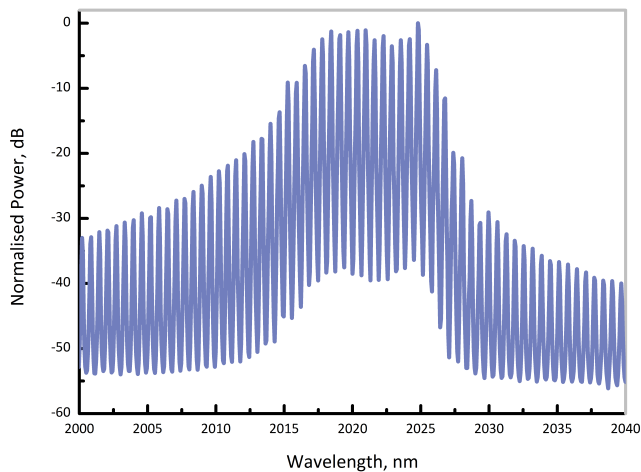


eblanaphotonics

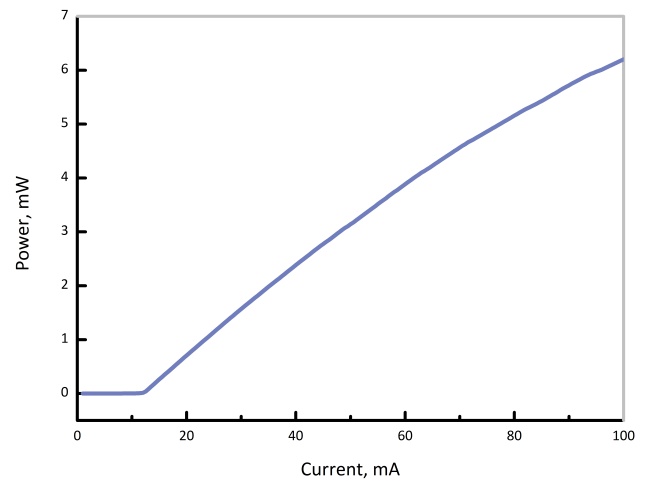


SUPERIOR PERFORMANCE

Eblana Photonics EP2020-FP-B laser diode, available in range from 1950-2150nm, is a cost effective, highly coherent laser source. Eblana's advanced epistructure design is used to deliver an InP-based strained quantum-well FP laser with applications in CO₂ monitoring and free space comms.



Optical Spectrum at 25°C



Representative wavelength-current tuning characteristics

ELECTRO-OPTICAL CHARACTERISTICS* ($T_{SUB} = 25^{\circ}C$)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Centre Wavelength Range	λ	-	2020	-	nm
Side Mode Supression Ratio	SMSR	-	N/A	-	dB
Threshold Current	I_{th}	-	20	30	mA
Output Power in fiber	P_f	3	5	-	mW
Temperature Tuning Coefficient	T_{λ}	-	0.5	-	nm/°C
Slope Efficiency	SE	0.05	0.08	-	mW/mA
Forward Voltage	V_f	-	1.3	1.6	V
Thermistor Resistance	R_T	9.5	10	10.5	k Ω
Thermistor Temp. Coefficient	C	-	-4.4	-	%/°C

*CW bias unless otherwise stated



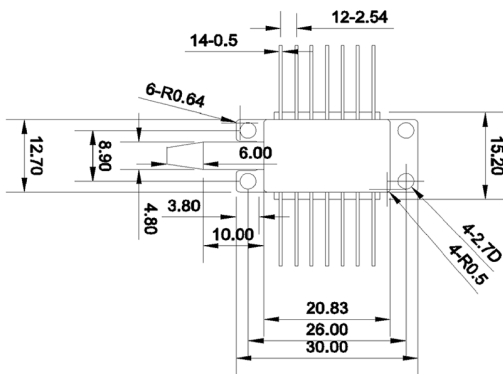
ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Forward Current	I_f	-	-	220	mA
TEC Current	I_{TEC}	-	-	1.2	A
Reverse Voltage LD	V_{rev}	-	-	2.0	V
Case Temperature*	T_{Case}	-20	-	50	°C
Chip Submount Temperature	T_{Sub}	0	--	50	°C
Storage Temperature	$T_{storage}$	-40	-	85	°C

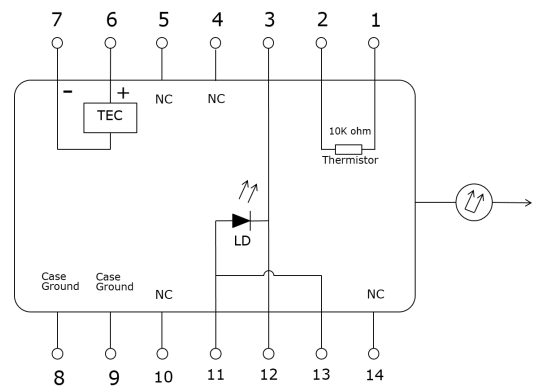
*For $T_{sub} < 25^{\circ}C$, Max Case Temperature should be derated to $T_{Case,Max} = T_{sub} + 40^{\circ}C$

PACKAGING

The EP2020-FP-B product series is offered in a 14-pin Butterfly package - Inquire for alternative packaging options. The standard package pinout is shown below, variations may be requested. mPD not included as standard.



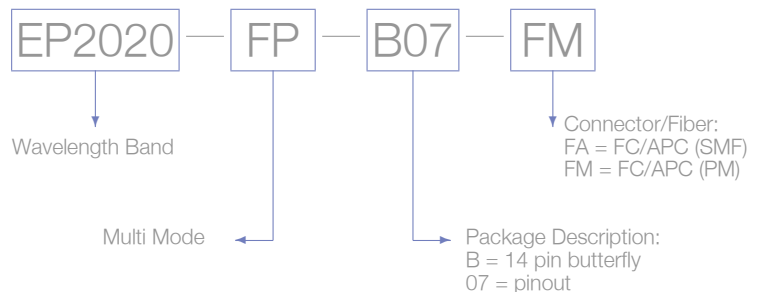
14-pin butterfly schematic



Standard "Pinout 07" option

HOW TO ORDER

Construct your part number using the following example and email your order to sales@eblanaphotonics.com, or call +353 1 675 3228.



Laser Safety

This is a Class 3R Laser Product as defined by International Standard IEC 60825-1, Edition 3. 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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