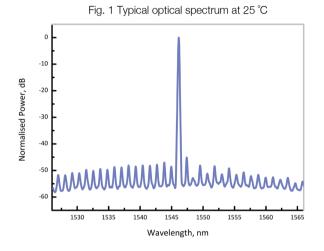
1310 nm DM LASER Model EP1310-0-DM-B

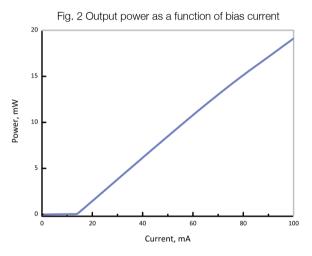
•••• eblanaphotonics



SUPERIOR PERFORMANCE

Eblana Photonics EP1310-0-DM-B laser, available in the 1300-1320nm range, is designed for use in various communications and sensing applications, including FTTX, PON and datacomms systems. Eblana's Discrete-Mode (DM) technology enables tunable single-mode operation mode-hop free, at a competitive price.





Electro-Optical Characteristics* (T $_{_{\rm SUB}}$ = 25 °C, I $_{_{\rm OP}}$ = 80 mA)

Parameter	Symbol	Min	Тур	Max	Unit
Available Wavelength Range	λ	1300	1305	1320	nm
Wavelength Tolerance	$\lambda_{ m spec}$	λ - 2	λ	λ + 2	nm
Output Power in Fiber	P _f	9.5	14.5	-	mW
Slope Efficiency	SE	0.15	0.21	-	mW/mA
Threshold Current	I _{th}	-	10	15	mA
Side Mode Supression Ratio	SMSR	35	40	-	dB
Optical Linewidth	Δf	-	2	-	MHz
Temperature Tuning Coefficient	T_{λ}	-	0.10	-	nm/°C
Current Tuning Coefficient	I_{λ}	-	11.5	-	pm/mA
Thermistor Resistance	R _τ	9.5	10	10.5	kΩ
β Coefficient (25°C/85°C)	β	-	3930	-	K

*CW bias unless otherwise stated

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Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Operating Current	l _{op}	-	120	mA
Forward Voltage	V _f	-	2.5	V
TEC Current	I _{TEC}	-	1.2	А
TEC Voltage	V _{TEC}	-	3.3	V
Reverse Voltage LD	V _r	-	2	V
Reverse Voltage PD	V _{rev}	-	20	V
Case Temperature*	T _{Case}	-20	65	°C
Storage Temperature	T _{Storage}	-40	85	°C

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

PACKAGING

The EP1310-0-DM-B product series is offered in a 14-pin Butterfly package, shown in Figure 3 - Inquire for other packaging options. The standard package pinout is shown below in Figure 4, variations may be requested.

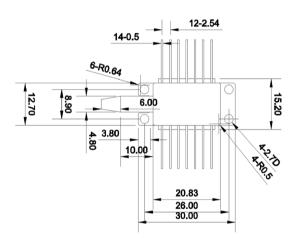
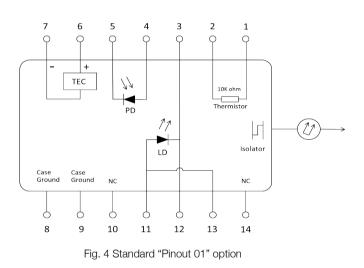
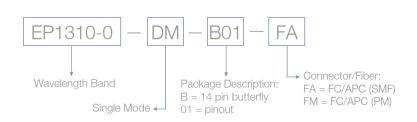


Fig. 3 Schematic of 14-pin butterfly (Dimensions in mm)



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. Eblana's sales team are delighted to answer any questions you may have.





Laser Safety

This is a Class 3 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. Ensure appropriate Personal Protective Equipment (PPE) is worn. Laser safety is based on specifications stated in this brochure. Laser safety labels are not attached to the module due to space limitations but instead are affixed to the outside of the shipping carton. If laser is modified, classification must be re-evaluated by user.

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