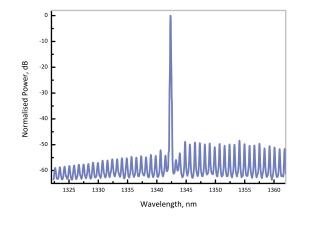
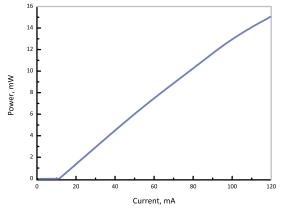


SUPERIOR SENSITIVITY

Eblana Photonics EP1342-DM-B laser, available in the 1320 - 1370nm range, is designed for a range of applications including moisture sensing. Eblana's Discrete-Mode (DM) technology enables tunable single-mode operation with no mode-hops, at a competitive price.



Typical optical spectrum at 25° C



Output power as a function of bias current

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Available Wavelength Range	λ	1320	1342	1370	nm
Wavelength Tolerance	$\lambda_{ m spec}$	λ -1	λ	λ +1	nm
Side Mode Supression Ratio	SMSR	30	40	-	dB
Threshold Current	l _{th}	-	13	20	mA
Output Power in fiber	Pf	6	12	-	mW
Optical linewidth	Δf	-	2	-	MHz
Temperature Tuning Coefficient	T_{λ}	-	0.1	-	nm/°C
Current Tuning Coefficient	$ _{\lambda}$	-	20	-	pm/mA
Slope Efficiency	SE	0.10	0.18	-	mW/mA
Thermistor Resistance	R _T	9.5	10	10.5	kΩ
Beta Coefficient	В	-	3930	-	K

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*CW bias unless otherwise stated

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	MAX	UNIT
Forward Current	۱ _f	-	120	mA
Forward Voltage	V _f	-	2	V
TEC Current	I _{TEC}	-	1.2	А
Reverse Voltage LD	V _r	-	2	V
Case Temperature*	T _{Case}	-20	65	°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

TEC

8 9 10 11 12 13 14

11

LD

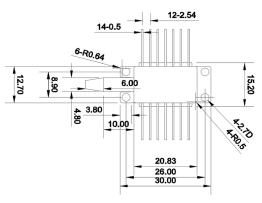
Standard "Pinout 01" option

(1)

И

PACKAGING

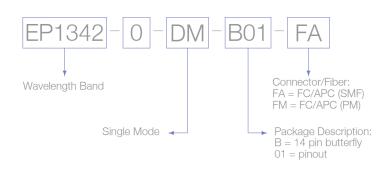
The EP1342-DM-B product series is offered in a 14-pin Butterfly package - Inquire for other packaging options. The standard package pinout is shown below, variations may be requested.



14-pin butterfly schematic

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 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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