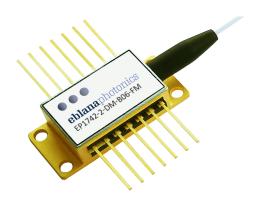
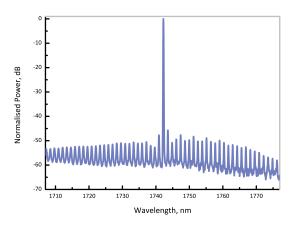
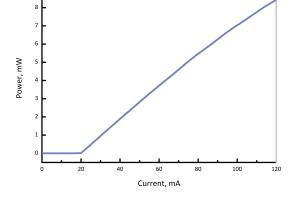
1742nm DM LASER EP1742-DM-B **eblana**photonics



ACCURATE HCL MONITORING

Eblana Photonics EP1742-DM-B laser, available in the range from 1735-1770nm, enables sensitive detection of Hydrogen Chloride (HCl). Eblana's Discrete-Mode (DM) technology enables mode-hop free tunability and excellent SMSR, while ensuring cost effectiveness.





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	1735	1742.2	1770	nm
Wavelength Tolerance	$\lambda_{ ext{spec}}$	λ -1	λ	λ +1	nm
Side Mode Supression Ratio	SMSR	30	40	-	dB
Threshold Current	l _{th}	-	20	25	mA
Output Power in fiber	P _f	3	5	-	mW
Optical linewidth	Δf	-	-	2	MHz
Temperature Tuning Coefficient	T_λ	0.07	0.1	-	nm/°C
Current Tuning Coefficient	I_{λ}	10	15	-	pm/mA
Slope Efficiency	SE	0.05	0.08	-	mW/mA
Thermistor Resistance	R _T	9.5	10	10.5	kΩ
Thermistor Temp. Coefficient	С	-	-4.4	-	%/°C

*CW bias unless otherwise stated

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株式会社 光響

Email: info@symphotony.com Web: https://www.symphotony.com/ Sales@eblanaphotonics.com Dublin, Ireland

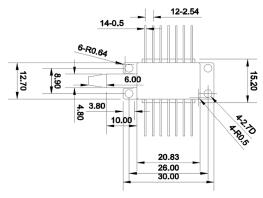
ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	MAX	UNIT
Forward Current	l _f	-	140	mA
Forward Voltage	V _f	-	2	V
TEC Current	I _{TEC}	-	1.2	А
Reverse Voltage LD	V_{rev}	-	2	V
Case Temperature*	T_Case	-20	65	°C
Chip Submount Temperature	T_Sub	0	50	°C
Storage Temperature	T _{storage}	-40	85	°C

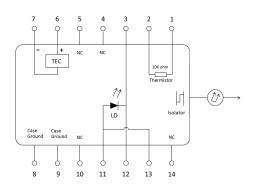
*For T_{sub} < 25°C, Max Case Temperature should be derated to $T_{Case,Max}$ = T_{sub} + 40°C

PACKAGING

The EP1742-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. mPD not included as standard.



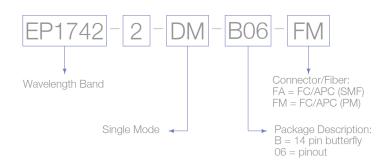
14-pin butterfly schematic



Standard "Pinout 06" 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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