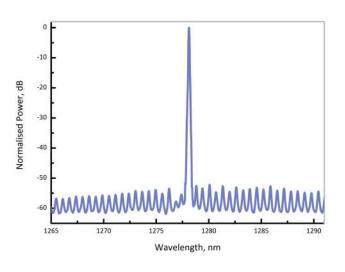
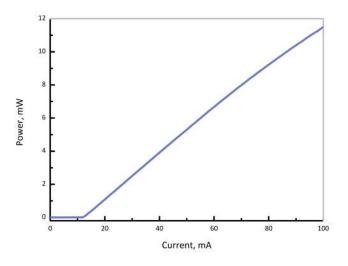
1278nm DM LASER EP1278-DM-B **Contract Provided Action**



PRECISION HF SENSING

Eblana Photonics EP1278-DM-B laser diode, available at a range of wavelengths from 1260 - 1288nm, is designed specifically for detection of Hydrogen Flouride. Eblana's Discrete-Mode (DM) technology enables cost effectiveness with mode-hop free tunability and excellent SMSR.





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	1260	1278	1288	nm
Wavelength Tolerance	$\lambda_{ m spec}$	λ -1	λ	λ +1	nm
Side Mode Supression Ratio	SMSR	30	40	-	dB
Threshold Current	l _{th}	-	15	20	mA
Output Power in fiber	Pf	5	8	12	mW
Optical linewidth	Δf	-	-	2	MHz
Temperature Tuning Coefficient	T_{λ}	0.07	0.1	-	nm/°C
Current Tuning Coefficient	I_{λ}	0.01	0.015	-	nm/mA
Slope Efficiency	SE	0.1	0.15	-	mW/mA
Thermistor Resistance	R _T	9.5	10	10.5	kΩ
Thermistor Temp. Coefficient	С	-	-4.4	-	%/°C

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*CW bias unless otherwise stated

Cybel¹

1195 Pennsylvania Ave. Bethlehem, PA 18018 USA Sales: contact@cybel-llc.com

Phone: (610) 691 7012 Website: www.cybel-llc.com

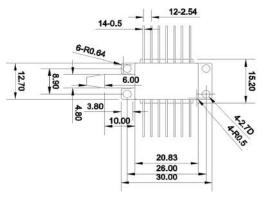
ABSOLUTE MAXIMUM RATINGS

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	Vr	-	2	V
Reverse Voltage PD	V _{rev}	-	20	V
Case Temperature*	T _{Case}	-20	65	°C
Chip Submount Temperature	T _{Sub}	0	50	°C
Storage Temperature	T _{storage}	-40	85	°C

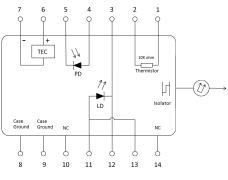
*For $T_{sub} < 25^{\circ}$ C, Max Case Temperature should be derated to $T_{Case,Max} = T_{sub} + 40^{\circ}$ C

PACKAGING

The EP1278-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.



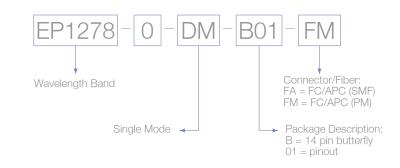
14-pin butterfly schematic



Standard "Pinout 01" option

HOW TO ORDER:

Construct your part number using the following example and email your order to contact@cybel-llc.com.





Laser Safety

This is a Class 3R 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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