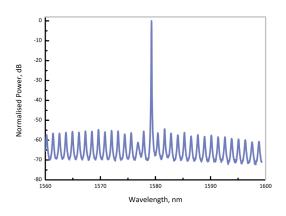


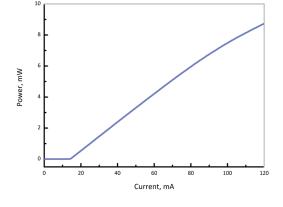




SUPERIOR SENSITIVITY

Eblana Photonics EP1580-DM-B laser, available in the 1560-1595nm range, is designed to coincide with H_2S , CO and CO_2 absorption lines around 1580nm. 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	1560	1580	1595	nm
Wavelength Tolerance	$\lambda_{ ext{spec}}$	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	4	6	-	mW
Optical linewidth	Δf	-	-	2	MHz
Temperature Tuning Coefficient	T_λ	-	0.1	-	nm/°C
Current Tuning Coefficient	I_λ	-	0.01	-	nm/mA
Slope Efficiency	SE	0.06	0.09	-	mW/mA
Thermistor Resistance	R _T	9.5	10	10.5	kΩ
Thermistor Temp. Coefficient	С	-	-4.4	-	%/°C

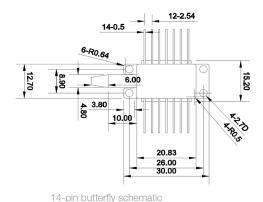
ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	MAX	UNIT
Forward Current	l _f	-	120	mA
Forward Voltage	V _f	-	2	V
TEC Current	I _{TEC}	-	1.2	А
Reverse Voltage LD	V_r	-	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°C, Max Case Temperature should be derated to $T_{Case,Max}$ = T_{sub} + 40°C

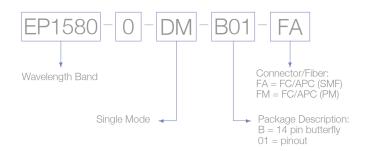
PACKAGING

The EP1580-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.



Standard "Pinout 01" option







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.