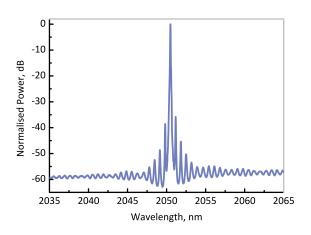
2051nm DM LASE eblanaphotonics EP2051-DMH-B

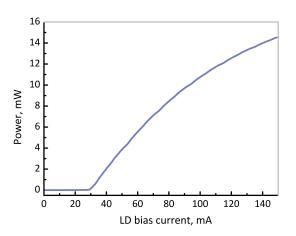


SUPERIOR PERFORMANCE

Eblana Photonics EP2051-DMH-B combines Eblana's patented Discrete-Mode (DM) technology with expert epistructure design, resulting in an advanced single mode, high power laser diode. This product is ideal for many applications including high power, high sensitivity CO₂ detection, seed laser and next-gen WDM communications.







Power (in fibre) vs LD current (15°C, SOA=100mA)

ELECTRO-OPTICAL CHARACTERISTICS* (T_{SUB} = 15° C)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Available Wavelength Range	λ	2049	2051	2053	nm
Wavelength tolerance	$\lambda_{ extst{spec}}$	λ -2	λ	λ +2	nm
Side Mode Supression Ratio	SMSR	30	35	-	dB
Threshold Current (SOA = 100mA)	I _{th}	-	30	50	mA
Output Power in fibre (LD/SOA = 200/100mA)	Pf	8	10	-	mW
Optical linewidth	Δf	-	5	-	MHz
Temperature Tuning Coefficient	T_λ	-	0.1	-	nm/°C
Current Tuning Coefficient	I_λ	-	3	-	pm/mA
Slope Efficiency (LD/SOA tied)	SE	0.04	0.06	-	mW/mA
Thermistor Resistance	R _T	9.5	10	10.5	kΩ
Thermistor Temp. Coefficient	С	-	-4.4	-	%/°C

*CW bias unless otherwise stated



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

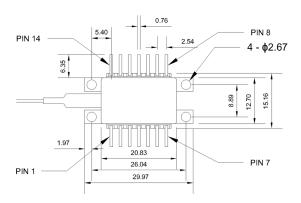
Phone: (610) 691 7012 Website: www.cybel-llc.com

PARAMETER	SYMBOL	MIN	MAX	UNIT
Max Current per section (LD/SOA)	l _f	-	200	mA
Forward Voltage	V_{f}	-	2.5	V
TEC Current	I _{TEC}	-	1.2	А
Reverse Voltage LD	V_r	-	2.0	V
Case Temperature*	T _{Case}	-20	65	°C
Chip Submount Temperature	T _{Sub}	0	50	°C
Storage Temperature	T _{storage}	-40	85	°C

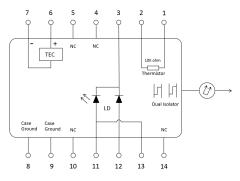
*For T_{sub} < 25°C, Max Case Temperature should be derated to $T_{Case,Max}$ = T_{sub} + 40°C

PACKAGING

The EP2051-DMH-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.



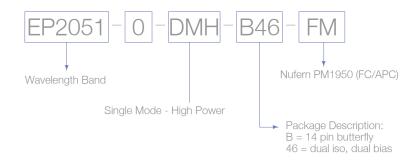
14-pin butterfly schematic



Standard pinout 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 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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