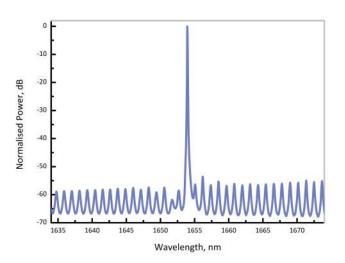
1654nm DM LASER EP1654-DM-B eblanaphotonics

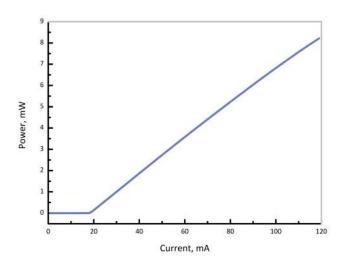


ADVANCED METHANE SENSING

Eblana Photonics EP1654-DM-B laser diode, available in a range from 1640 - 1670nm, is specifically designed for sensitive detection of Methane. Eblana's patented Discrete-Mode (DM) technology enables mode-hop free tuning and excellent SMSR performance, all at a highly competitive price.







Output power (ex-fibre) as a function of current

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Available Wavelength Range	λ	1640	1653.7	1670	nm
Wavelength Tolerance	$\lambda_{ m spec}$	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	6	-	mW
Optical linewidth	Δf	-	-	2	MHz
Temperature Tuning Coefficient	T_λ	0.07	0.1	-	nm/°C
Current Tuning Coefficient	l _λ	0.008	0.01	-	nm/mA
Slope Efficiency	SE	0.08	0.1	-	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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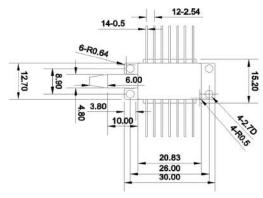
Phone: (610)6917012 Website: www.cybel-llc.com

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

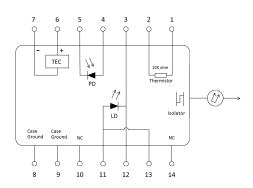
*For T_{sub} < 25°C, Max Case Temperature should be derated to $T_{Case,Max}$ = T_{sub} + 40°C

PACKAGING

The EP1654-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.



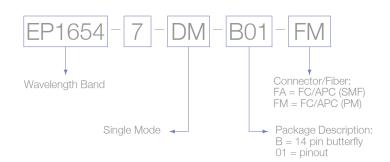
14-pin butterfly schematic



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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