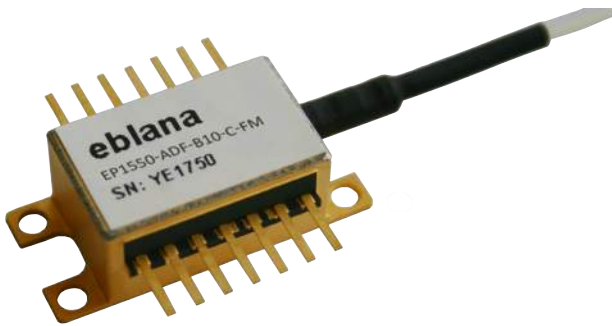


1550nm LASER

EP1550-ADF-B

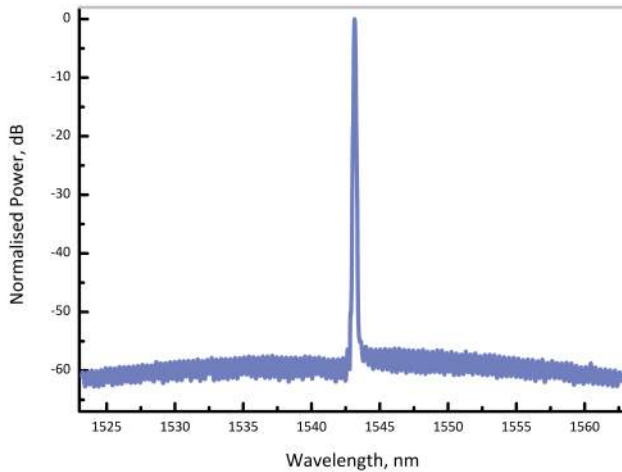


eblanaphotonics

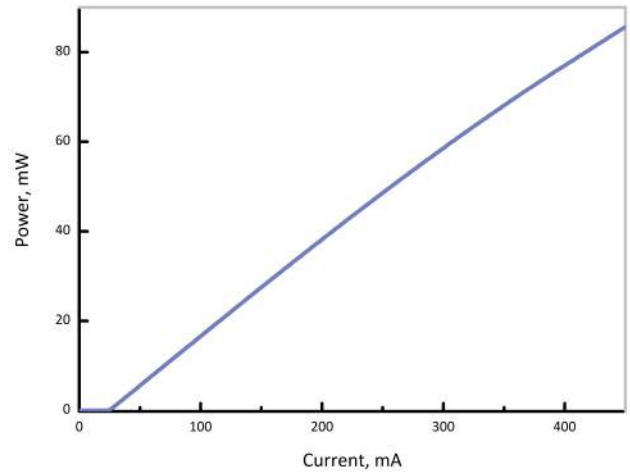


ADVANCED COMMUNICATIONS

Eblana Photonics EP1550-ADF-B laser diode is ideally suited for telecoms applications such as long reach analog transmission and CATV. This high power, low threshold laser features a highly linear output and excellent SMSR performance.



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
Centre Wavelength Range	λ	1540	1550	1560	nm
Side Mode Supression Ratio	SMSR	35	45	-	dB
Threshold Current	I_{th}	-	12	20	mA
Operating Current	I_{op}	-	375	500	mA
Output Power in fiber	P_f	40	50	60	mW
Optical linewidth	Δf	-	-	1	MHz
Slope Efficiency	SE	0.08	0.12	-	mW/mA
Optical Isolation	ISO	30	35	-	dB
Relative Intensity Noise (20-1000 MHz)	RIN	-	-	-160	dB
Thermistor Resistance	R_T	9.5	10	10.5	k Ω
Thermistor Temp. Coefficient	C	-	-4.4	-	%/ $^{\circ}C$

*CW bias unless otherwise stated

©Eblana Photonics Series 1550-ADF-B Rev 2.0

Cybel

1195 Pennsylvania Ave. Bethlehem, PA 18018 USA
Phone: (610) 691 7012

Sales: contact@cybel-llc.com
Website: www.cybel-llc.com

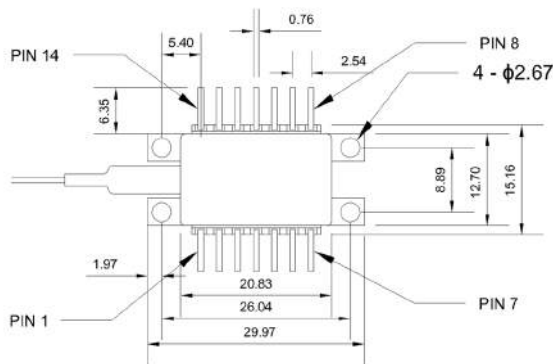
ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	MAX	UNIT
Forward Current	I_f	-	500	mA
Forward Voltage	V_f	-	2.5	V
TEC Current	I_{TEC}	-	1.7	A
Reverse Voltage LD	V_r	-	2	V
Reverse Voltage mPD	V_{rev}	-	20	V
mPD Forward Current	I_{mPD}	-	10	mA
Case Temperature*	T_{Case}	-20	65	°C
Storage Temperature	$T_{storage}$	-40	85	°C

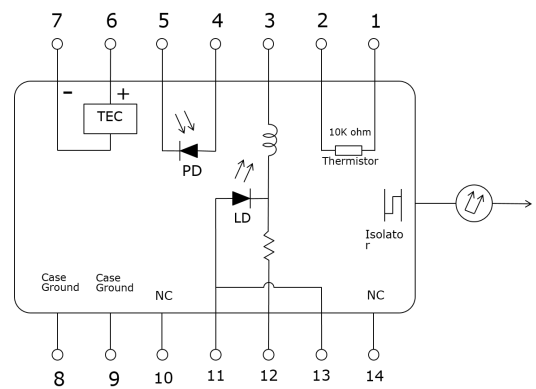
*For $T_{sub} < 25^\circ\text{C}$, Max Case Temperature should be derated to $T_{Case,Max} = T_{sub} + 40^\circ\text{C}$

PACKAGING

The EP1550-ADF-B product series is offered in a 14-pin Butterfly package. The standard package pinout is shown below.



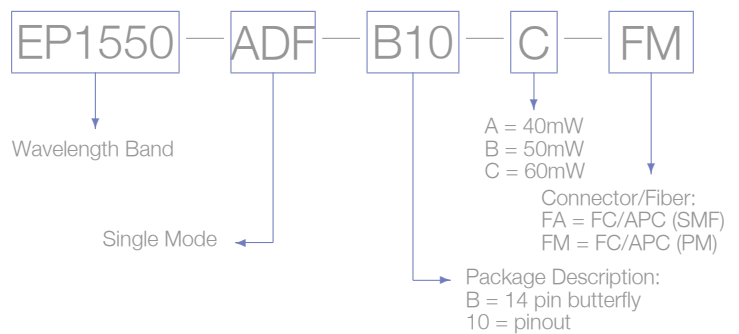
14-pin butterfly schematic



Standard "Pinout 10" option

HOW TO ORDER

Construct your part number using the following example and email your order= to contact@cybel-llc.com, or call :610-691-7012.



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.

©Eblana Photonics 2015. Eblana Photonics Reserves the right to amend this document at any time, without prior warning. ©Eblana Photonics Series 1550-ADF-B Rev 2.0