1565nm DFB laser
EP1565-5-DFB-H16-FM

eblanaphotonics

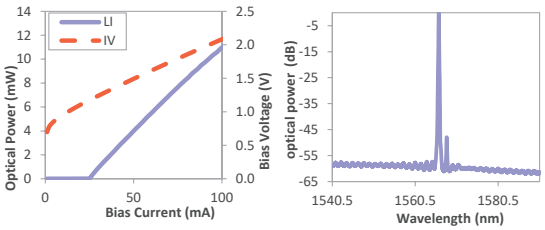


Figure 1: Optical Spectrum at 25 °C

COHERENCE AND STABILITY

Eblana Photonics EP1565-5-DFB-H16 laser diode, available in wavelength range from 1540 - 1570nm, offers DFB type lasers in 7-Pin butterfly hermetic package with K-connector, as a complement and extension of the DM type for directly modulation with 3dB bandwidth up to 20GHz.

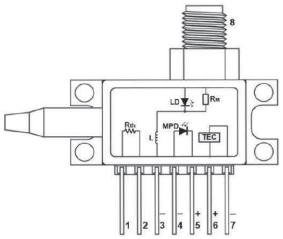
ELECTRO-OPTICAL CHARACTERISTICS (T_{SUB} =25°C)

PARAMETER	SYMBOL	UNITS	MIN.	TYPICAL	MAX.	COMMENTS
Wavelength	λ	nm	1564	1565	1566	Tolerance +/-1nm
Side Mode Supression Ratio	SMSR	dB	30	40	-	
Threshold Current	I_{th}	mA	-	12	20	
Output power in fiber	P_{CW}	mW	-	8	10	I_{op} =70mA
modulation bandwidth	Δf	GHz	-	20	-	3dB, I_{op} =60mA
Temperature Tuning Coefficient	T_λ	nm/◦C	-	0.1	0.2	
Current Tuning Coefficient	I_λ	nm/mA	-	0.03	0.05	
Slope Efficiency	SE	mW/mA	0.05	0.1	-	
Thermistor Resistance	R_T	kΩ	9.5	10	10.5	
Thermistor Temp. Coefficient	β	K	-	3930	-	

Table 1: Electro-optica characteristics

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	UNITS	MIN.	MAX.
Forward current	I_f	mA	-	100
Forward Voltage	V_f	V	-	2
TEC Current	I_{TEC}	A	-	4
Reverse Voltage	V_r	V	-	2
Reverse Voltage PD	V_{rev}	V	-	5
Case Temperature	T_{Case}	◦C	-40	85
Chip Submount Temperature	T_{sub}	◦C	0	50
Storage Temperature	$T_{storage}$	◦C	-40	85



PACKAGING

The EP1565-5-DFB-H16-FM product series is offered in a 7-pin Butterfly package with K-connector.
Inquire for other packaging options.

LASER SAFETY

This is a Class 3R Laser Product as defined by International Standard IEC 60825-1,Edition3. 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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