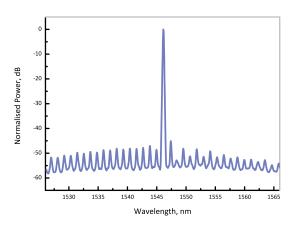
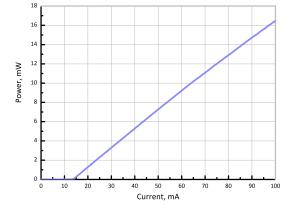
1550nm DM LASER EP1550-DM-TP39 eblanaphotonics



ADVANCED COMMUNICATIONS

Eblana Photonics EP1550-DM-TP39 laser diode, available in the 1540 - 1560nm range, is the perfect choice for telecoms applications such as SONET/SDH and Gigabit Ethernet. Eblana's Discrete-Mode (DM) technology platform enables DFB-like performance at a more competitive price.





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
Wavelength specification	$\lambda_{ m spec}$	λ -1	λ	λ +1	nm
Side Mode Supression Ratio	SMSR	30	40	-	dB
Threshold Current	l _{th}	-	15	20	mA
Output Power	Pf	8	11	16	mW
Optical linewidth	Δf	-	-	2	MHz
Temperature Tuning Coefficient	T_λ	0.07	0.1	0.14	nm/°C
Current Tuning Coefficient	I_{λ}	0.008	0.01	0.03	nm/mA
Slope Efficiency	SE	0.16	0.2		mW/mA
Thermistor Resistance	R _T	9.7	10	10.3	kΩ
Thermistor Temp. Coefficient	С		-4.4		%/°C
Beam divergence - perpendicular	heta ot	-	30	-	degrees
Beam divergence - parallel	θ	-	25	-	degrees

*CW bias unless otherwise stated

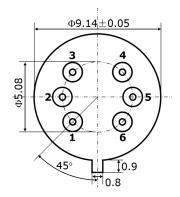


PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Forward Current	l _f	-	70	120	mA
Forward Voltage	V _f		1.3	1.6	V
TEC Current	I _{TEC}	-	-	0.7	А
Reverse Voltage LD	V_{rev}	-	-	2.0	V
Case Temperature*	T _{Case}	-20		65	°C
Chip Submount Temperature	T _{Sub}	0		50	°C
Storage Temperature	T _{storage}	-40		85	°C

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

PACKAGING

The EP1550-DM-TP39 product series is offered in an industry-standard TO39 package - Inquire for other packaging options. The standard package pinout is shown below, variations may be requested.



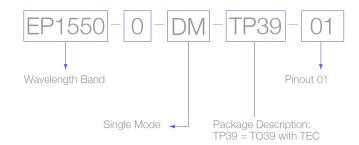
TO39 schematic - outside bottom view

PIN NO	DESCRIPTION
1	TEC+
2	LD+
3	Thermistor
4	Thermistor
5	LD-
6	TEC-

Standard "Pinout 01" 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 3228.





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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