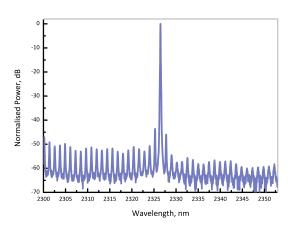
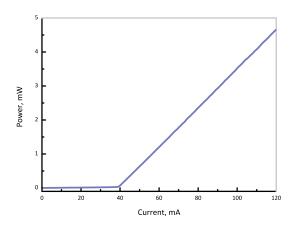


SUPERIOR CO SENSING

Eblana Photonics EP2327-DM-TP39 laser diode has been developed for precision sensing of Carbon Monoxide in the mid-IR wavelength region. Eblana's Discrete-Mode (DM) technology enables excellent SMSR and tuning performance at a highly competitive price







Output power as a function of bias current

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Side Mode Supression Ratio	SMSR	30	40	-	dB
Threshold Current	I _{th}	-	40	-	mA
Facet output power	Pf	-	4.5	-	mW
Temperature Tuning Coefficient	T_λ	-	0.2	-	nm/°C
Current Tuning Coefficient	I_λ	-	15	-	pm/mA
Slope Efficiency	SE	-	0.06	-	mW/mA
Thermistor Resistance	R_{T}	9.7	10	10.3	kΩ
Thermistor Temp. Coefficient	С	-	-4.4	-	%/°C
Beam divergence - perpendicular	$ heta oldsymbol{\perp}$	-	40	-	degrees
Beam divergence - parallel	heta	-	20	-	degrees

*CW bias unless otherwise stated

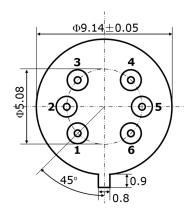


ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	MAX	UNIT
Forward Current	l _f	-	150	mA
Forward Voltage	V_f	-	1.5	V
TEC Current	I _{TEC}	-	0.7	А
Reverse Voltage LD	V_r	-	2	V
Case Temperature*	T_Case	-20	65	°C
Chip Submount Temperature	T _{Sub}	0	50	°C
Storage Temperature	T _{storage}	-40	85	°C

PACKAGING

The EP2327-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.



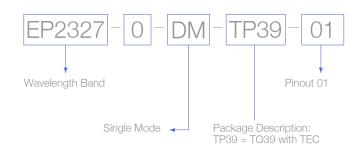
TO39 schematic - outside bottom view

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 3220.





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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