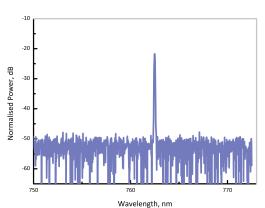


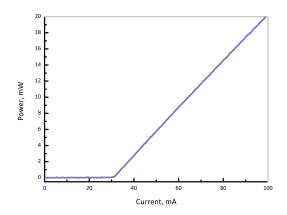




ADVANCED O_2 DETECTION

Eblana Photonics EP760-DM laser diode is the perfect tool for TDLAS-based O_2 sensing. Eblana's patented Discrete-Mode (DM) technology is used to design a cost effective, highly coherent and stable single mode laser.





Representative optical Spectrum at 25°C

Representative LIV plot

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Available Wavelength Range	λ	758	760	764	nm
Wavelength tolerance	$\lambda_{ ext{spec}}$	λ -1	λ	λ +1	nm
Side Mode Supression Ratio	SMSR	30	40	-	dB
Threshold Current	l _{th}	-	30	-	mA
Output Power	Pf	12	15	-	mW
Temperature Tuning Coefficient	T_{λ}	-	0.1	-	nm/°C
Current Tuning Coefficient	$ _{\lambda}$	-	6	-	pm/mA
Slope Efficiency	SE	0.5	0.6	-	mW/mA
Thermistor Resistance	R _T	9.7	10	10.3	kΩ
Thermistor Temp. Coefficient	С	-	-4.4	-	%/°C
Beam divergence - perpendicular	hetaot	-	20	-	degrees
Beam divergence - parallel	$\theta \ $	-	10	-	degrees

*CW bias unless otherwise stated



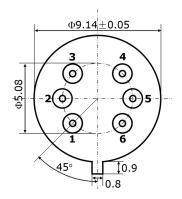
www.eblanaphotonics.com Sales@eblanaphotonics.com Dublin, Ireland

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	MAX	UNIT
Forward Current	_f	-	120	mA
Forward Voltage	V _f	-	2.5	V
TEC Current	I _{TEC}	-	0.7	А
Reverse Voltage LD	Vr	-	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

PACKAGING

The EP760-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.



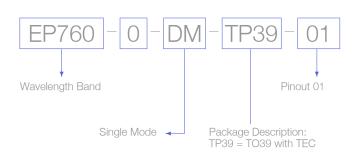
TO39 schematic - outside bottom view

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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