

760nm FP LASER

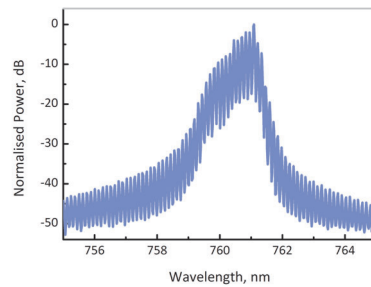
EP760-FP-TP39 - Preliminary



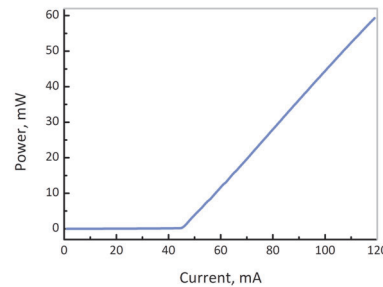
eblanaphotonics



Eblana Photonics EP760-FP-TP39 laser diode is a cost effective, highly coherent laser source. Eblana's advanced epistructure design is used to deliver a GaAs-based quantum-well FP laser with high power and excellent spectral characteristics.



Representative optical Spectrum at 25°C



Representative LIV plot

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Centre Wavelength	λ	-	763	-	nm
Wavelength tolerance	λ_{spec}	$\lambda - 5$	λ	$\lambda + 5$	nm
Threshold Current	I_{th}	-	50	70	mA
Output Power	P_f	25	35	-	mW
Temperature Tuning Coefficient	T_{λ}	-	0.06	-	nm/°C
Current Tuning Coefficient	I_{λ}	-	6	-	pm/mA
Slope Efficiency	SE	0.5	0.7	-	mW/mA
Thermistor Resistance	R_T	9.7	10	10.3	k Ω
Thermistor Temp. Coefficient	C	-	-4.4	-	%/°C
Beam divergence - perpendicular	$\theta_{\perp}$	-	20	-	degrees
Beam divergence - parallel	$\theta_{\parallel}$	-	10	-	degrees

* CW bias unless otherwise stated



eblanaphotonics

www.eblanaphotonics.com

Sales@eblanaphotonics.com

Dublin, Ireland

Individual. Innovative. Exceptional.

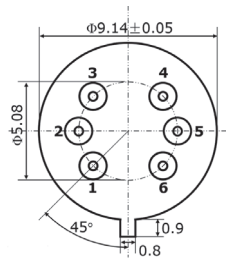
Distributed by IMM Photonics GmbH | imm-photonics.de | phone +49 89 321412-57 | sales@imm-photonics.de

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	MAX	UNIT
Forward Current	I_f	-	150	mA
Forward Voltage	V_f	-	2.5	V
TEC Current	I_{TEC}	-	0.7	A
Reverse Voltage LD	V_r	-	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-FP-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.



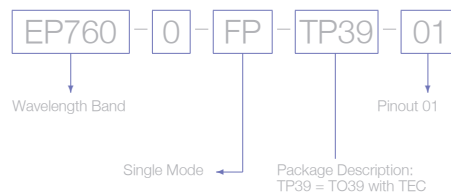
TO39 schematic - outside bottom view

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@ebanaphotonics.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.

©Eblana Photonics 2016. Eblana Photonics Reserves the right to amend this document at any time, without prior warning. ©Eblana Photonics Series 760-FP-TP39 Rev 0.1



eblanaphotonics

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

Individual. Innovative. Exceptional.

Distributed by IMM Photonics GmbH | imm-photonics.de | phone +49 89 321412-57 | sales@imm-photonics.de