

EP1310-FP-OSA Series

1310nm Fabry Perot Lasers - TOSA



FEATURES

- LC or SC type Transmitter Optical Sub Assembly
- 1310nm emission wavelength
- InAlGaAs composition for reliable uncooled operation
- Wide Operating Temperature Range
- Low Threshold Current
- High Bandwidth - up to 2.5Gbps

APPLICATIONS

- Fiber Channel
- Gigabit Ethernet
- Digital Transport Links (SDH/SONET)

ELECTRO-OPTICAL CHARACTERISTICS ($T_{op} = 25^{\circ}\text{C}$ unless stated otherwise):

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	Test Conditions
Threshold Current	I_{th}		6.5	10	mA	CW
Output Power	P_o	0.2			mW	CW, $I_{op} = I_{th} + 20\text{mA}$
Monitor output current	I_m	100		700	μA	$V_{RPD} = 5\text{V}$
Monitor dark current	I_{md}			100	nA	$V_{RPD} = 5\text{V}$
Peak Wavelength	λ	1290	1310	1330	nm	CW
Quantum Efficiency	η	0.01			mW/mA	CW, $I_{op} = I_{th} + 20\text{mA}$
Spectral Width RMS	$\Delta\lambda$			3	nm	CW
Rise time/fall time						
622 Mbps version				400	ps	20 - 80%
1.25 Gbps version				250	ps	20 - 80%
2.50 Gbps version				120	ps	20 - 80%

ABSOLUTE MAXIMUM RATINGS:

PARAMETER	Symbol	MIN	MAX	UNIT
Reverse Voltage (LD)	V_{RLD}		2	Volts
Reverse Voltage (PD)	V_{RPD}		10	Volts
Case Operating Temperature				
B version	T_{op}	-40	85	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-40	85	$^{\circ}\text{C}$

PACKAGE:

The EP1310-FP-OSA product series comes in either an SC or LC TOSA package format - see package outline drawings below (Figs. 1(a) & (b)). The package pinout may be specified according to the options shown in Fig 2.

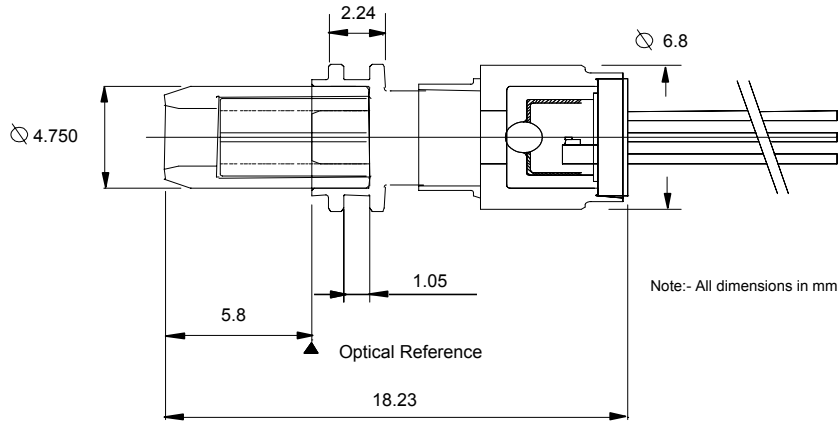


Fig. 1(a) - SC TOSA Outline

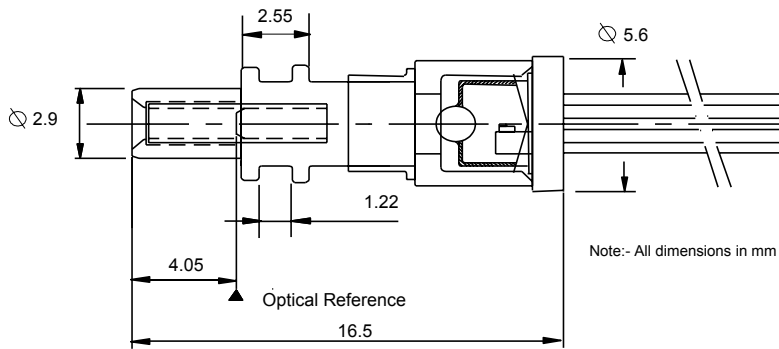
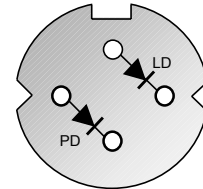
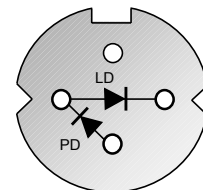


Fig. 1(b) - LC TOSA Outline



Option 1 (bottom view)

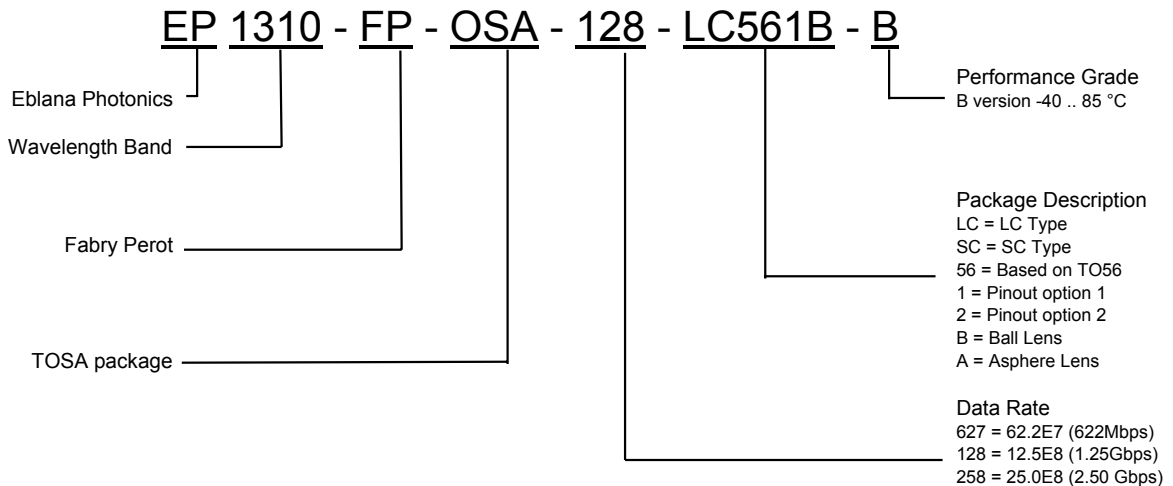


Option 2 (bottom view)

Fig. 2 - Pinout Options

HOW TO ORDER (example):

Please use the following example as a guide to building the appropriate part number for the device you require:



SALES OFFICES:

Europe
 Eblana Photonics
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