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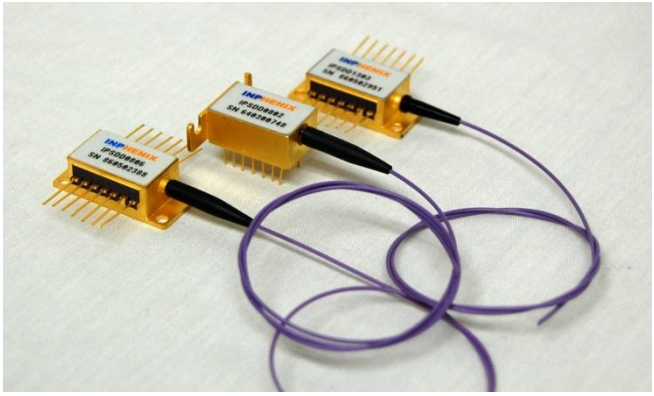
Product Specification, Revision 1.51

Fabry-Perot Laser

IPFPD0701 (785nm)

Features

- High Power Laser
- Wide Operational Temperature Range
- 14-pin / 14-pin DIL Available
- Multi-Mode Laser



Applications

- Optical Transmission
- Data Communication
- Biometer
- Local Optical Network
- FTTH (Fiber to the Home)

Device Specifications

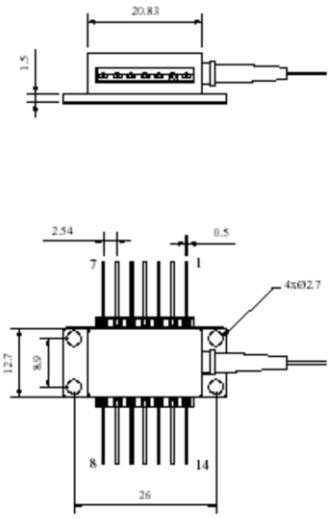
Parameter	Symbol	Min.	Typ.	Max.	Unit
Peak Wavelength	λ_c	782	785	792	nm
Spectrum Width (rms)	$\Delta\lambda_{10dB}$	1	1.5	5	nm
Output Power CW	P_{op}	200	-	-	mW
Operating Current	I_{op}	-	1000	-	mA
Operating Voltage	V_{op}	-	2.0	2.2	V
Threshold Current	I_{th}	-	400	-	mA
Slope Efficiency	η	0.8	-	1.2	W/A

Absolute Maximum Ratings

Parameter	Min.	Max.	Unit
Operating Temperature	– 20	70	°C
Storage Temperature	– 40	85	°C
Maximum Current	1200		mA
Fiber Type	SMF/PMF/MMF		
Fiber Jacket	250µm tight buffer with 900µm loose tube		
Package	14-pin DIL/14-pin BUT		
Lead Solder Temperature	260°C for 10 Seconds		

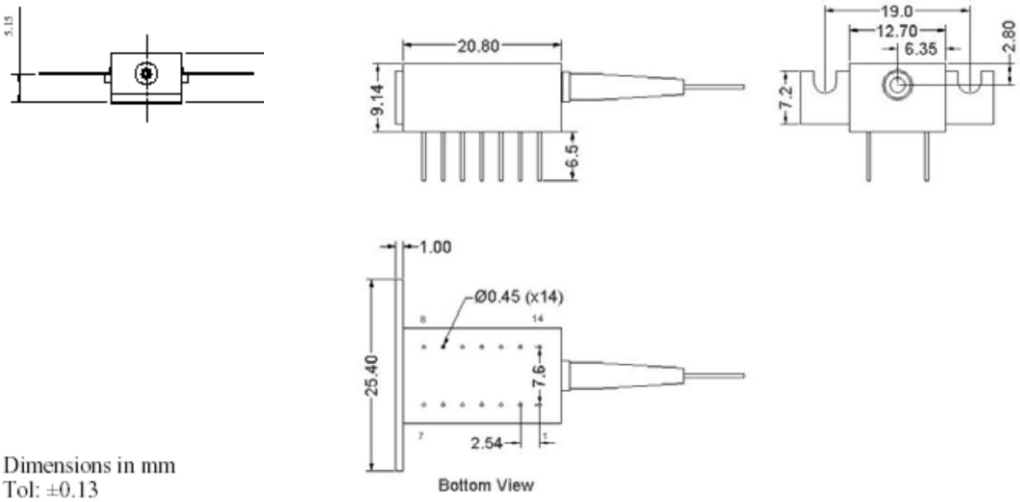
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Package Dimensions



Dimensions in mm
Tol: ±0.13

14-Pin BUT Package



14-Pin DIL Package

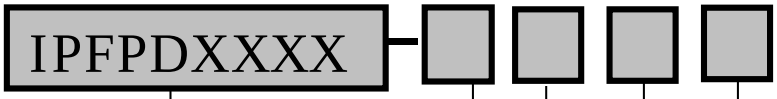
Pin Definition

14-pin BUT package				14-pin DIL package			
Pin	Function	Pin	Function	Pin	Function	Pin	Function
1	TEC (+)	8	NC	1	TEC (+)	8	NC
2	Thermistor	9	NC	2	NC	9	LD (-)
3	NC	10	LD (+)	3	NC	10	Case
4	NC	11	LD (-)	4	NC	11	Thermistor
5	Thermistor	12	NC	5	LD (+)	12	Thermistor
6	NC	13	Case	6	NC	13	NC
7	NC	14	TEC (-)	7	NC	14	TEC (-)

- If the LD is ordered with a Back Facet Monitor, Pin 7 is PD-Cathode and Pin 8 is PD+Anode

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Part Numbering System



Model:
IPFPDXXXX: FP Device

Package:
1: 14-pin DIL
2: 14-pin Butterfly

Fiber Type:
1: SM Fiber
2: PM Fiber
3: MM Fiber

Jacket Type:
1: 900µm
2: 250µm tight buffer

Connector Type:
0: No Connector
3: FC/APC
4: FC/UPC
7: SC/APC
8: SC/UPC

Back Facet Monitor:
Available upon request

Example: IPFPD0701-1224: 785nm FP in 14-pin DIL with 250µm tight buffered PM Fiber with FC/UPC connectors

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