

Product Specification, Revision 1.51

Fabry-Perot Laser

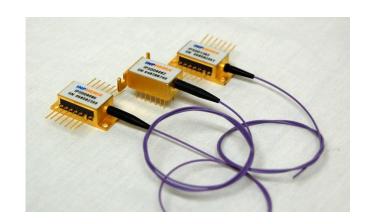
IPFPD0701(785nm)

Features

- Low Threshold and Operating Current
- · High Modulation Speed, up to 2.5 Gb/s
- · Wide Operational Temperature Range
- · 14-pin /, 14-pin DIL Available

Applications

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



Device Specifications

Parameter	Symbol	Min.	Тур.	Max.	Unit
Peak Wavelength	λ_{c}	782	785	792	nm
Spectrum Width (rms)	$\Delta\lambda_{10 ext{dB}}$	1	1.5	5	nm
Output Power CW	P_{op}	0.55	0.6	0.65	W
Operating Current	I_{op}	-	1.0	-	A
Operating Voltage	V_{op}		2.0	2.2	V
Threshold Current	I_{th}	0.25	0.40	0.55	A
SLOW AXIS DIVERGENCE, FWHM		7	8	9	deg
FAST AXIS DIVERGENCE, FWHM		23	26	28	deg
Slope Efficiency	η	0.8	-	1.2	W/A

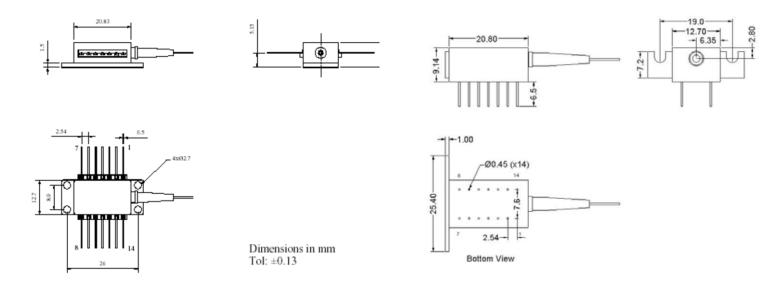
Absolute Maximum Ratings

Parameter	Min. Max.		Unit	
Operating Temperature	- 20 70		°C	
Storage Temperature	- 40	85	°C	
Maximum Current	1.2		A	
Fiber Type	SMF/PMF/MMF			
Fiber Jacket	250µm tight	buffer with 900µ	ım loose tube	
Package	14-pin DIL/14-pin BUT			
Lead Solder Temperature	260°C for 10 Seconds			



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Package Dimensions



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



Part Numbering System

	IPFPDXXXX
Model: IPFPDXXXX: FP D	evice
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 reque	
*	01-1224: 785nm FP in 14-pin DIL with I PM Fiber with FC/UPC connectors

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