

Product Specification, Revision 1.51

Fabry-Perot Laser

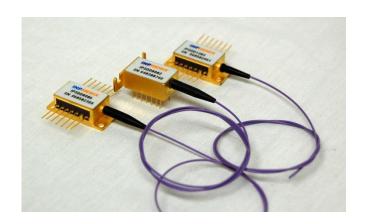
IPFPD1402(1490nm)

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.	Typ.	Max.	Unit
Peak Wavelength	λ_{c}	1480	1490	1500	nm
Spectrum Width (rms)	Δλ		5		nm
Output Power	Po	1	-	3	mW
Forward Current	I_{F}	-	-	50	mA
Threshold Current	I_{th}	-	5	15	mA
PD Monitor Current	I_{pd}	50			uA
Slope Efficiency	Se	0.05			W/A

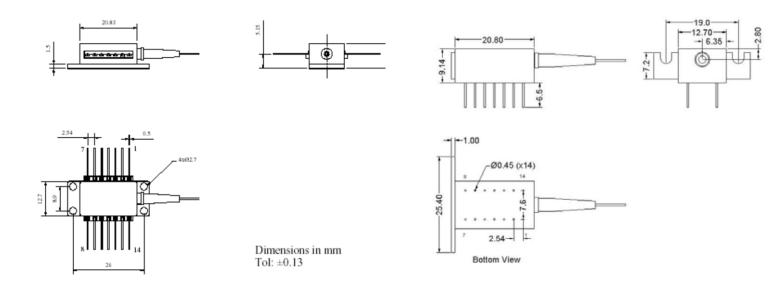
Absolute Maximum Ratings

Parameter	Min.	Max.	Unit
Operating Temperature	- 20	70	°C
Storage Temperature	- 40	85	°C
TEC Drive Current	-	1.5	A
TEC Drive Voltage	-	3.6	V
Maximum Current	2	00	mA
Thermistor Resistance		10kΩ @ 25°C	
SLD Chip Temperature Setting		25°C	
Fiber Type	SMF/PMF/MI	MF	
Fiber Jacket	250μm tight b	uffer with 900µr	n loose tube
Package	14-pin DIL/14	l-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

	IPFPDXXXXX
Model: IPFPDXXXX: FP I	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 buffe	er -
Connector Type:	
0: No Connector 3: FC/APC 4: FC/UPC	7: SC/APC 8: SC/UPC
Back Facet Monitor Available upon requ	
*	02-1224: 1490nm FP in 14-pin DIL with d PM Fiber with FC/UPC connectors

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