



# Fabry-Perot Laser

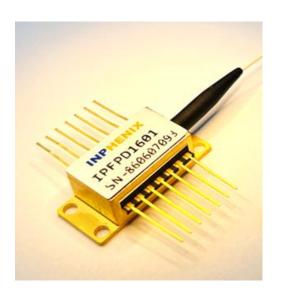
## IPFPD1402(1490nm)

#### **Features**

- High Peak Optical Power (Pulsed)
- SM, MM and PM fiber options
- · Custom packaging available
- 14-pin BUT / 14-pin DIL Available

### **Applications**

- · Optical Sensor
- OTDR
- Range Finding
- Spectroscopy



### **Device Specifications**

Parameter	Symbol	Min.	Тур.	Max.	Unit
Peak Wavelength	$\lambda_{\mathrm{c}}$	1450	1490	1500	nm
Spectrum Width (rms)	Δλ	I	20	-	nm
Pulse Output Power	Po	-	180	-	mW
Forward Current	$I_F$	-	-	1000	mA
Threshold Current	$I_{th}$	-	20	-	mA

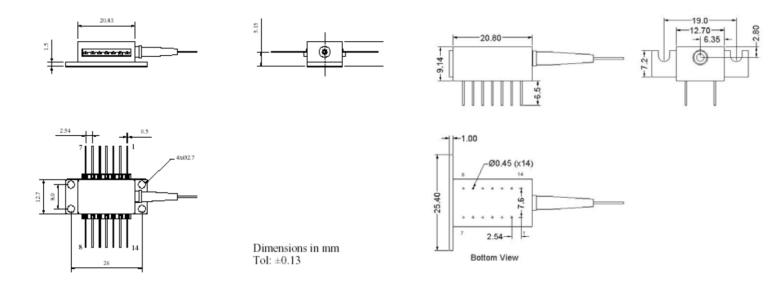
### **Absolute Maximum Ratings**

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	200		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	-pin BUT		
Lead Solder Temperature	260°C for 10 S	Seconds		



### **Product Specification, Revision 1.51**

### **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	
_	2-1224: 1490nm FP in 14-pin DIL with PM Fiber with FC/UPC connectors

### **Corporate Office**

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