

Product Specification, Revision 1.51

Fabry-Perot Laser

IPFDT1502(1550nm)

Features

- · Low Threshold and Operating Current
- · High Modulation Speed, up to 2.5 Gb/s
- · Wide Operational Temperature Range
- TO56, TO8, TO9 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}	1542	1550	1565	nm
Spectrum Width (rms)	Δλ		5		nm
Output Power	Po	1	-	2	mW
Forward Current	I_{f}	ı	ı	50	mA
Threshold Current	I_{th}	-	-	25	mA
PD Monitor Current	I_{pd}	50			uA
Slope Efficiency	Se	0.05			W/A

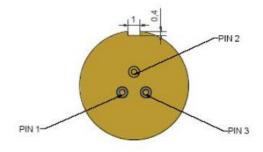
Absolute Maximum Ratings

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	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	

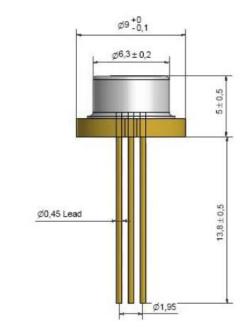


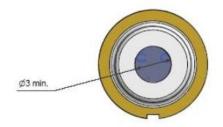
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Package Dimensions



Pin#	Connection
1	LD Anode
2	LD Cathode, PD Cathode and Case
3	PD Anode

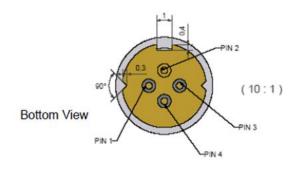




φ9 mm TO-CAN(TO56/TO8/TO9)

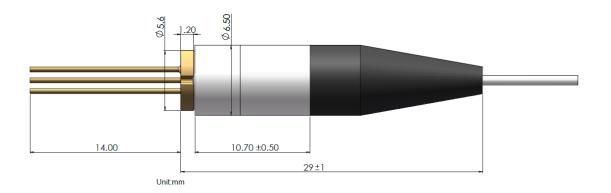


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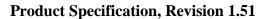


Pin#	Connection
1	PD Anode
2	LD Cathode, PD Cathode and Case
3	LD Anode
4	

Pigtail Information		
Connector	TBD	
Fiber	SMF	
Fiber Length	0.5 m	



φ5.6 mm Pigtailed Coaxial Device (TO56 Header)





Part Numbering System

	IPFPTXXXX
Model: IPFPTXXXX: Fabry-Pero	ot Laser Device
Package: - 7: TO 56 8: TO 8 9: TO 9	
Fiber Type: 0: No Cap 1: Single M 6: Flat Glass 7: Aspher	ode 5: Ball Lens ric Lens
Jacket Type: 0: No Jacket 1: 900μm 2: 250μm tight buffer	
Connector Type:	
0: No Connector 3: FC/APC 7: 8	SC/APC SC/UPC
Back Facet Monitor: Available upon request	
Example: IPFPT1502-97	700: 1550nm FP TO9 package with Aspheric lens.

Corporate Office

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