

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)



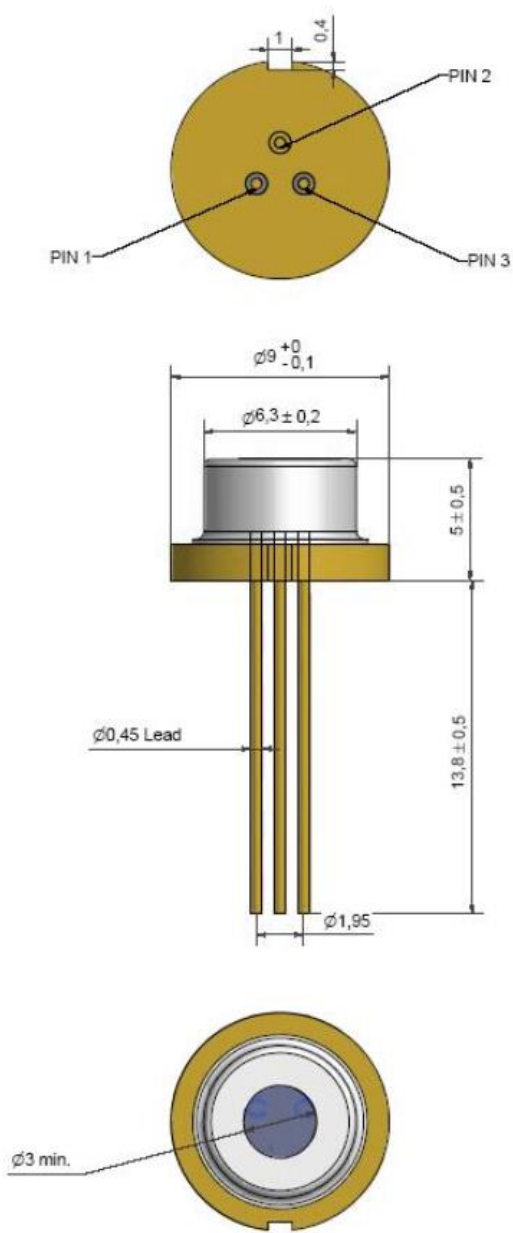
Device Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Peak Wavelength	λ_c	1542	1550	1565	nm
Spectrum Width (rms)	$\Delta\lambda$		5		nm
Output Power	P_o	1	-	2	mW
Forward Current	I_f	-	-	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

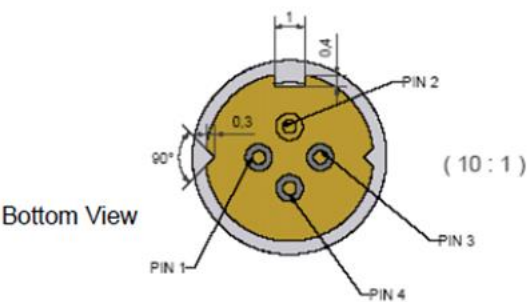
Parameter	Min.	Max.	Unit
Operating Temperature	- 20	70	°C
Storage Temperature	- 40	85	°C
TEC Drive Current	-	1.5	A
TEC Drive Voltage	-	3.6	V
Maximum Current	200		mA
Thermistor Resistance	10k Ω @ 25°C		
SLD Chip Temperature Setting	25°C		
Fiber Type	SMF/PMF/MMF		
Fiber Jacket	250 μ m tight buffer with 900 μ m loose tube		
Package	14-pin DIL/14-pin BUT/		
Lead Solder Temperature	260°C for 10 Seconds		

Package Dimensions



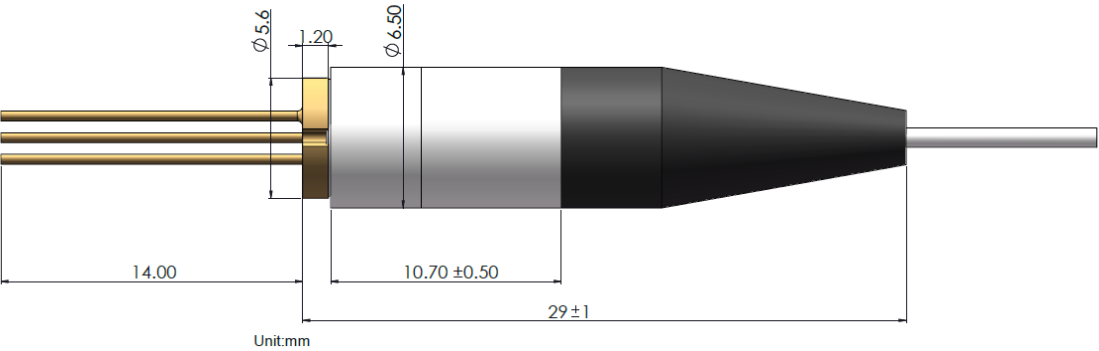
Pin#	Connection
1	LD Anode
2	LD Cathode, PD Cathode and Case
3	PD Anode

φ9 mm TO-CAN(TO56/TO8/TO9)



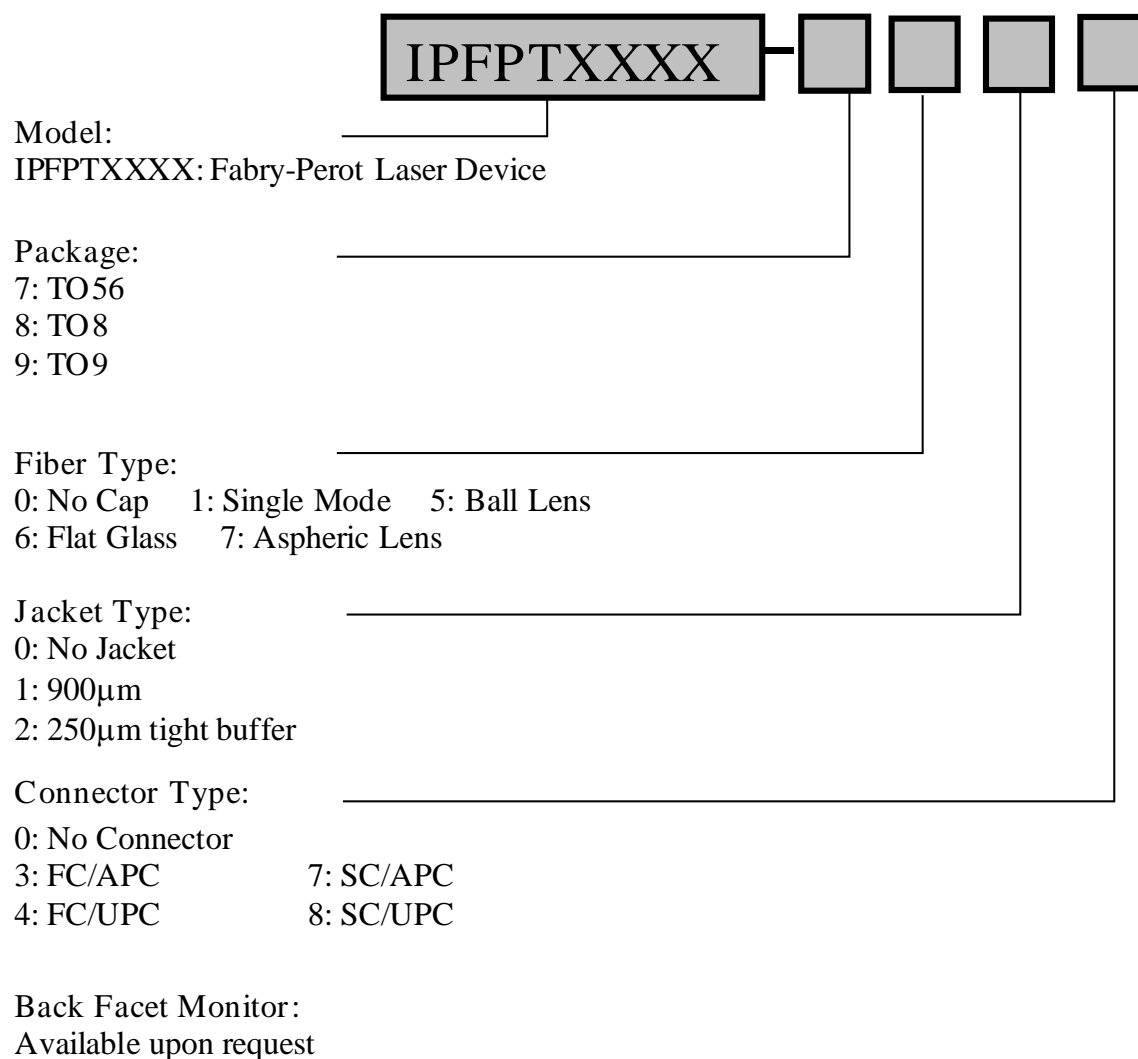
Pin#	Connection
1	PD Anode
2	LD Cathode, PD Cathode and Case
3	LD Anode
4	

Pigtail Information	
Connector	TBD
Fiber	SMF
Fiber Length	0.5 m



φ5.6 mm Pigtailed Coaxial Device (TO56 Header)

Part Numbering System



Example: IPFPT1502-9700: 1550nm FP TO9 package with Aspheric lens.

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