

Fabry-Perot Laser

IPFDT1602(1625nm)

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)



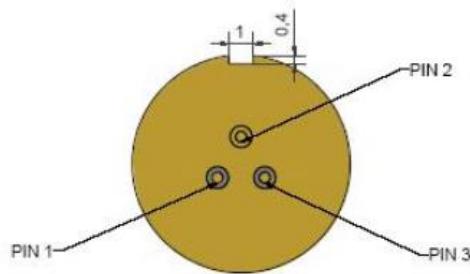
Device Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Peak Wavelength	λ_c	1617	1625	1633	nm
Spectrum Width (rms)	$\Delta\lambda$		7		nm
Output Power	P_o	1	-	2	mW
Forward Current	I_f	-	-	50	mA
Threshold Current	I_{th}	-	10	20	mA
PD Monitor Current	I_{pd}	50			uA
Slope Efficiency	Se	-	0.05		W/A

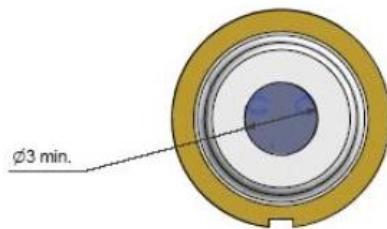
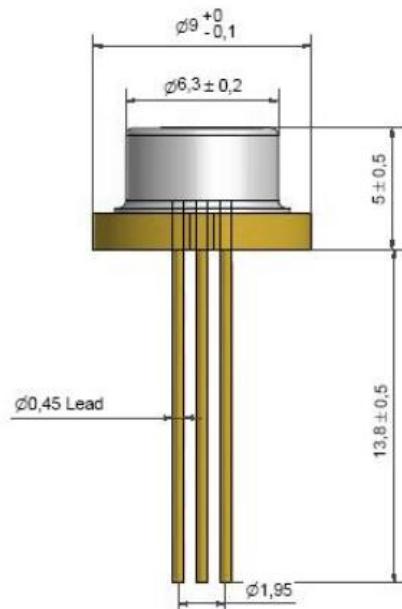
Absolute Maximum Ratings

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/MMF		
Fiber Jacket	250µm tight buffer with 900µm loose tube		
Package	14-pin DIL/14-pin BUT		
Lead Solder Temperature	260°C for 10 Seconds		

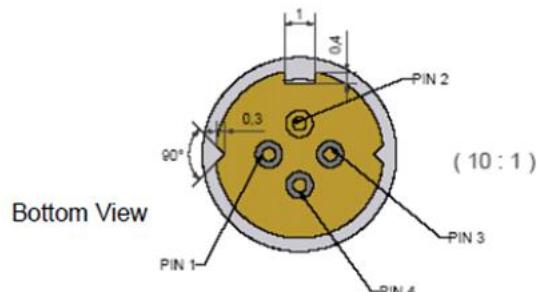
Package Dimensions



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



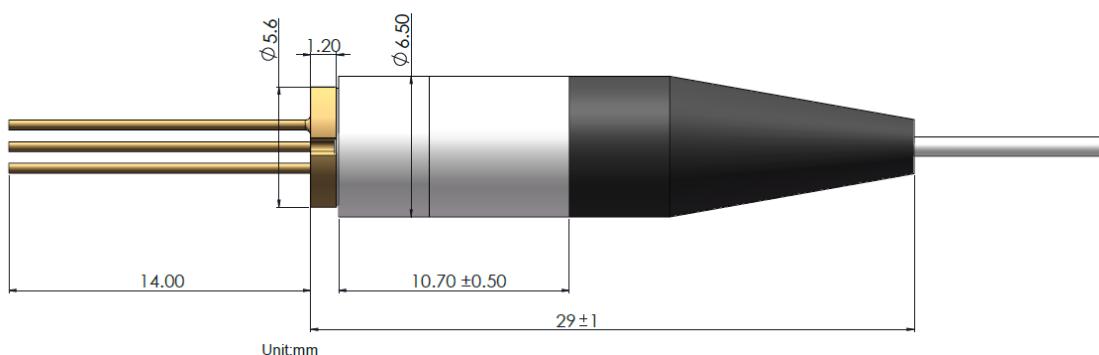
φ9 mm TO-CAN(TO56/TO8/TO9)



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

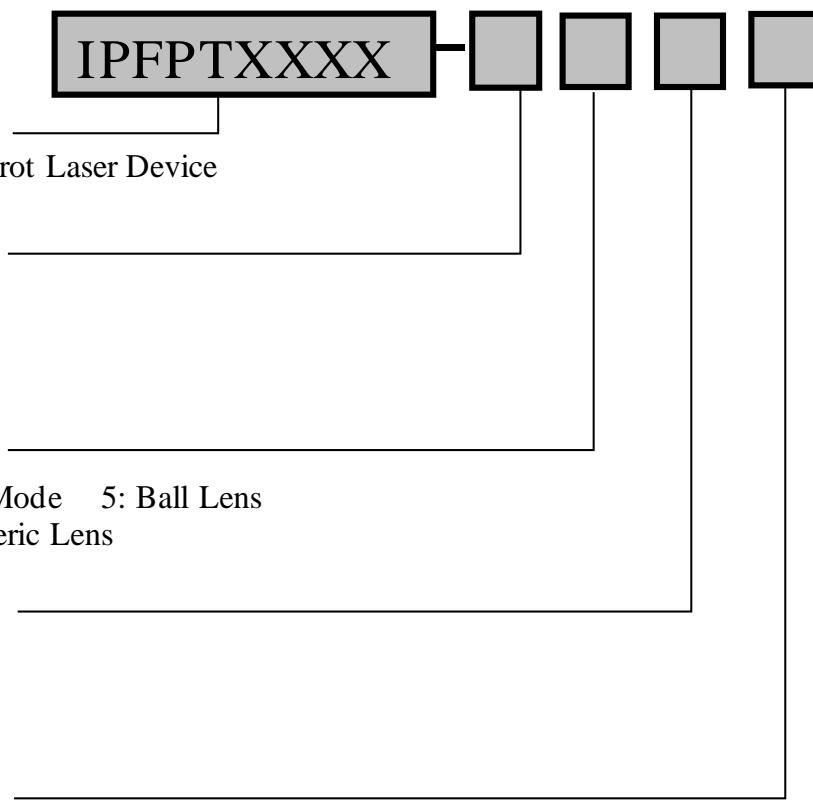
Pigtail Information

Connector	TBD
Fiber	SMF
Fiber Length	0.5 m



φ5.6 mm Pigtailed Coaxial Device (TO56 Header)

Part Numbering System



Back Facet Monitor:

Available upon request

Example: IPFPT1602-9700: 1625nm FP TO9 package with Aspheric lens.

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