

### Fabry-Perot Laser

IPFDT1402(1490nm)

#### 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)

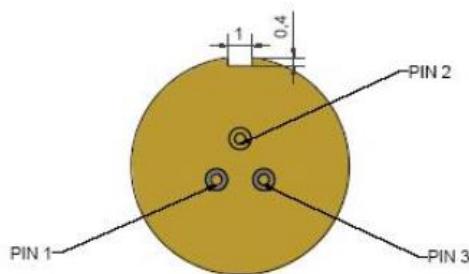
#### Device Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Peak Wavelength	$\lambda_c$	<b>1480</b>	<b>1490</b>	<b>1500</b>	nm
Spectrum Width (rms)	$\Delta\lambda$		<b>5</b>		nm
Output Power	$P_o$	<b>1</b>	-	<b>3</b>	mW
Forward Current	$I_f$	-	-	<b>50</b>	mA
Threshold Current	$I_{th}$	-	<b>5</b>	<b>15</b>	mA
PD Monitor Current	$I_{pd}$	<b>50</b>			uA
Slope Efficiency	Se	<b>0.05</b>			W/A

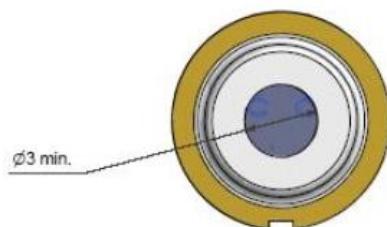
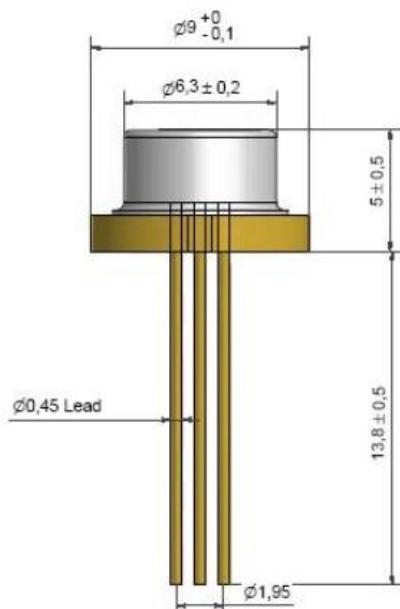
#### Absolute Maximum Ratings

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

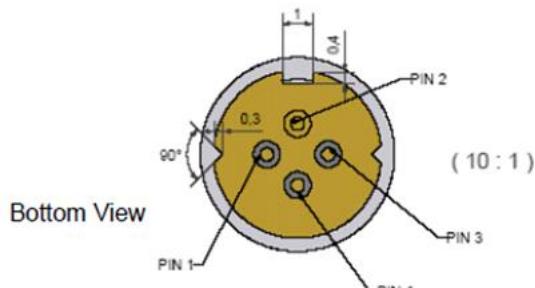
### Package Dimensions



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

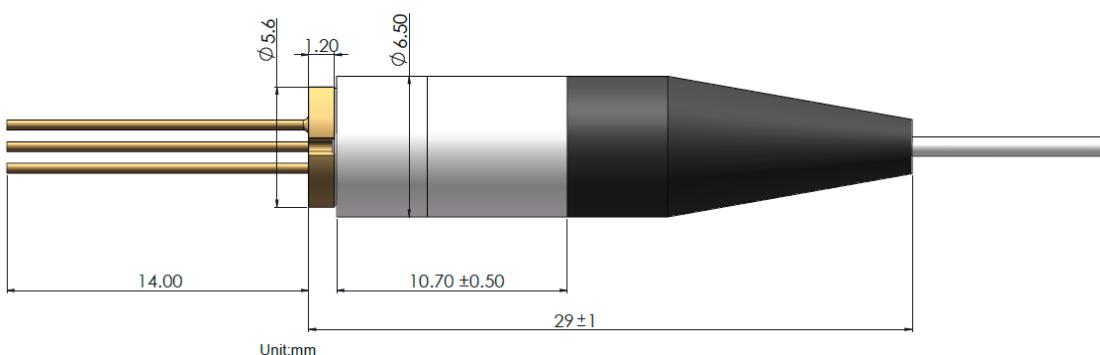


φ9 mm TO-CAN(TO56/TO8/TO9)



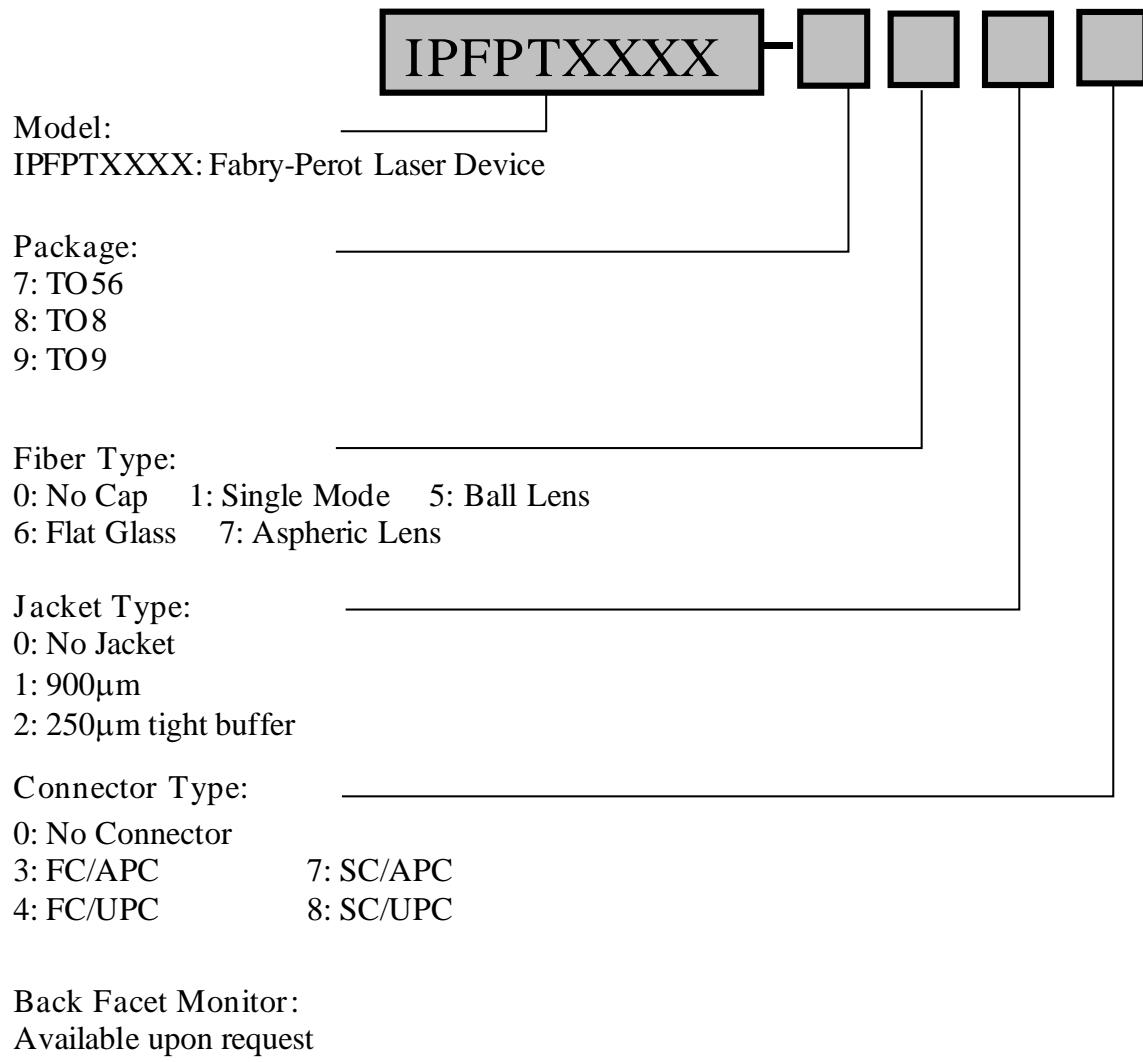
Pin#	Connection
1	PD Anode
2	LD Cathode, PD Cathode and Case
3	LD Anode
4	

Pigtail Information	
Connector	TBD
Fiber	SMF
Fiber Length	0.5 m



φ5.6 mm Pigtailed Coaxial Device (TO56 Header)

### Part Numbering System



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