

### Fabry-Perot Laser

#### IPFPT0701(785nm)

#### 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

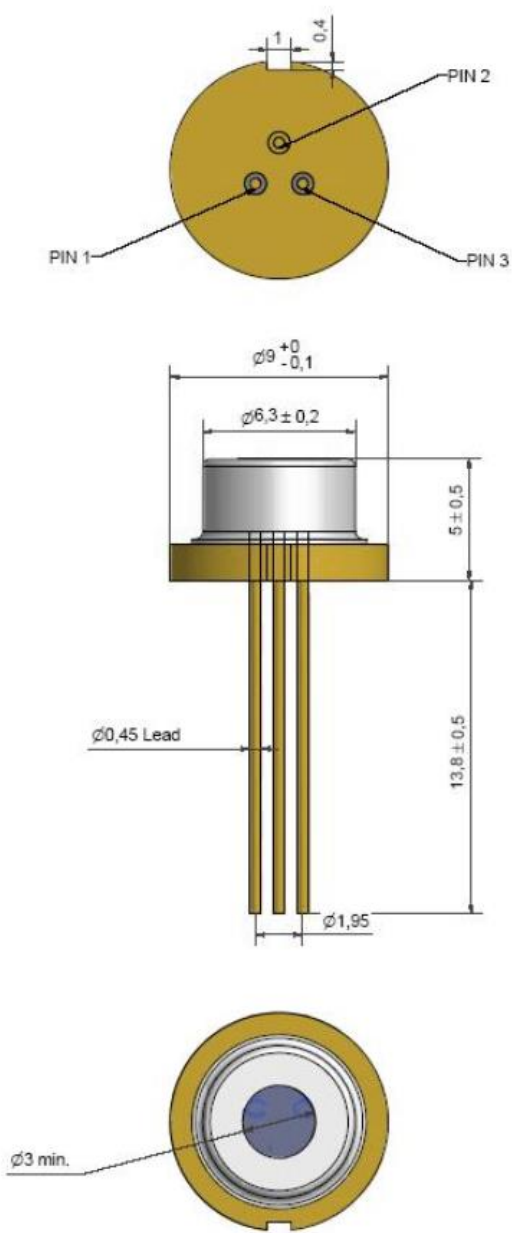
Parameter	Symbol	Min.	Typ.	Max.	Unit
Peak Wavelength	$\lambda_c$	782	785	792	nm
Spectrum Width (rms)	$\Delta\lambda_{10dB}$	1	1.5	5	nm
Output Power CW	$P_{op}$	0.55	0.6	0.65	W
Operating Current	$I_{op}$	-	1.0	-	A
Operating Voltage	$V_{op}$		2.0	2.2	V
Threshold Current	$I_{th}$	0.25	0.40	0.55	A
SLOW AXIS DIVERGENCE, FWHM		7	8	9	deg
FAST AXIS DIVERGENCE, FWHM		23	26	28	deg
Slope Efficiency	$\eta$	0.8	-	1.2	W/A

#### Absolute Maximum Ratings

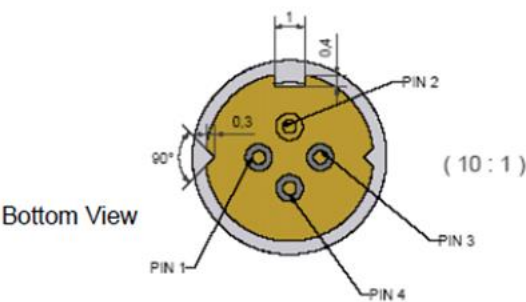
Parameter	Min.	Max.	Unit
Operating Temperature	- 20	70	°C
Storage Temperature	- 40	85	°C
Maximum Current	1.2		A
Fiber Type	SMF/PMF/MMF		
Fiber Jacket	250μm tight buffer with 900μm loose tube		
Package	TO56/TO8/TO9		
Lead Solder Temperature	260°C for 10 Seconds		

Package Dimensions

9 mm  
TO-C  
AN(T  
056/T  
08/T  
09)

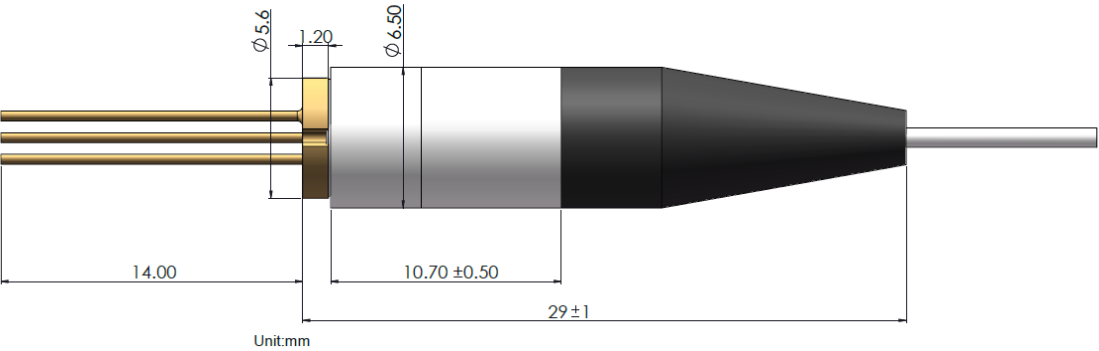


Pin#	Connection
1	LD Anode
2	LD Cathode, PD Cathode and Case
3	PD Anode



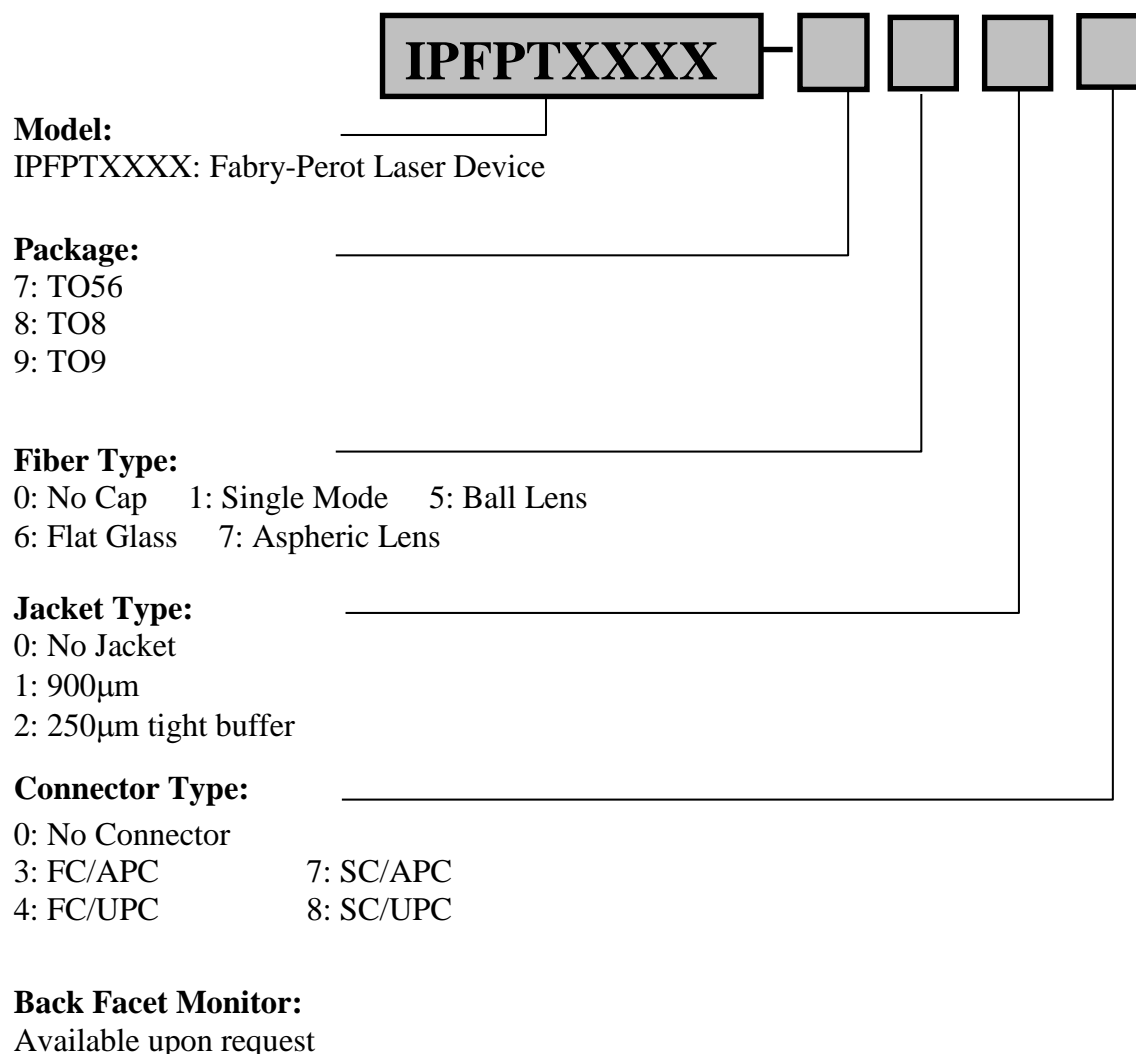
Pin#	Connection
1	PD Anode
2	LD Cathode, PD Cathode and Case
3	LD Anode
4	

Pigtail Information	
Connector	TBD
Fiber	SMF
Fiber Length	0.5 m



φ5.6 mm Pigtailed Coaxial Device (TO56 Header)

## Part Numbering System



**Example:** IPFPT0701-9700: 785nm FP TO9 package with Aspheric lens.

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