INPHENIX

Product Specification, Revision 1.51

Fabry-Perot Laser

IPFPT0701(785nm)

Features

- High Peak Optical Power (Pulsed)
- Custom packaging available
- TO8, TO9 Available

Applications

- Optical Sensor
- OTDR
- Range Finding
- Spectroscopy

Device Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Peak Wavelength	λ_c	780	785	795	nm
Spectrum Width (rms)	$\Delta\lambda_{10dB}$	-	-	5	nm
Pulse Output Power (Flat Window Output)	P_{op}	-	600	-	mW
Operating Current	I_{op}	-	1.0	-	A
Operating Voltage	V_{op}		2.0	2.2	V
Threshold Current	I_{th}	-	300	-	mA
Horizontal Divergence, 0.135 Peak		10	-	30	deg
Vertical Divergence		20	-	30	deg
Slope Efficiency	η	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	None		
Fiber Jacket	None		
Package	TO8/TO9		
Lead Solder Temperature	260°C for 10 Seconds		

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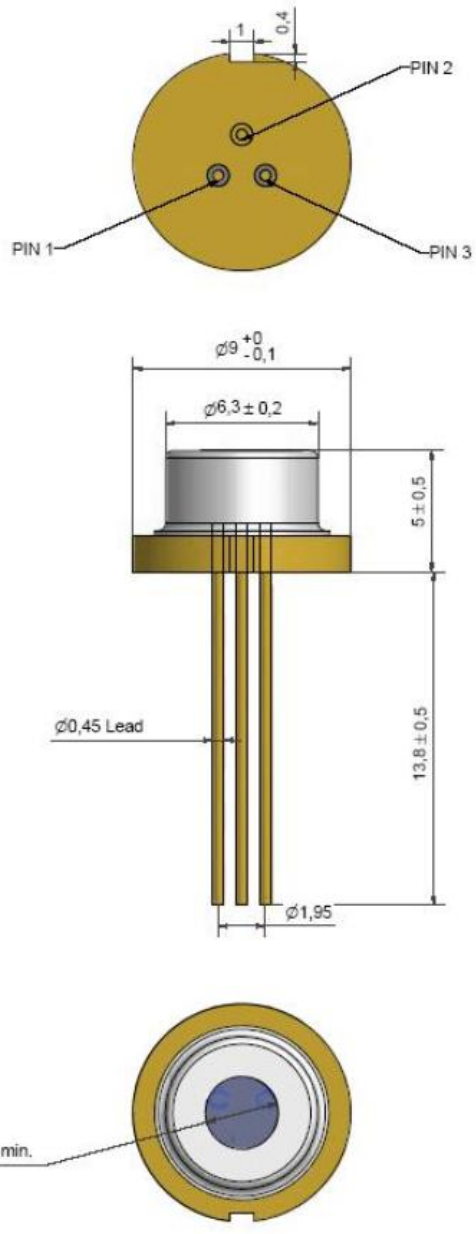
Package Dimensions



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

φ9 mm TO-CAN(TO8/TO9)

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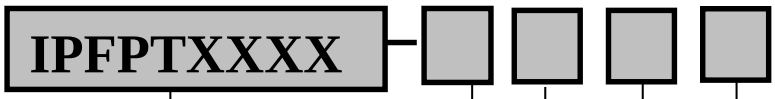
Part Numbering System



Model:
IPFPTXXXX: Fabry-Perot Laser Device

Package:
7: TO56
8: TO8
9: TO9

Fiber Type:
0: No Cap 1: Single Mode 5: Ball Lens
6: Flat Glass 7: Aspheric Lens

Jacket Type:
0: No Jacket
1: 900µm
2: 250µm tight buffer

Connector Type:
0: No Connector
3: FC/APC 7: SC/APC
4: FC/UPC 8: SC/UPC

Back Facet Monitor:
Available upon request

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

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