盛世光通信
Shengshi Optical

1490nm Pulse Laser For OTDR

Features

- High output power Pf = 40~60 mW @ IFP = 400mA
- Long wavelength λ_C = 1490 nm
- Built-in monitor PD
- Pulse Conditions: Pulse width (PW) = 10 μs, Duty = 1%

Applications

OTDR System

Absolute Maximum Ratings

Parameter	Symbol	Min.	Typical.	Max.	Unit
Pulsed Forward Current	IFP			750	mA
Reverse Voltage	VR			2	V
Reverse Voltage (monitor PD)	VRM			10	V
Reverse Current (monitor PD)	IFPM			2	mA
Operating Case Temperature	TC	0		60	℃
Storage Temperature	Tstg	-40		85	℃
Lead Soldering Temperature	Tsld			260(10s)	℃
Relative Humidity (noncondensing)	RH			85	%

Optical & Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Forward Voltage	VFP			3.5	V	IFP = 400 mA, PW = 10 μs, Duty = 1%
Threshold Current	Ith		20	35	mA	
Optical Output Power From Fiber	Pf	40	60		mW	IFP =400 mA, PW = 10 μs, Duty = 1%
Center Wavelength	λc	1470	1490	1510	nm	IFP = 400 mA, PW = 10 μs, Duty = 1%
Spectral Width	σ			4	nm	RMS (−3 dB)
Rise Time	tr		0.5	2.0	ns	10-90%
Fall Time	tf		0.5	2.0	ns	90-10%
Monitor Current	Im	0.05		2	mA	VRM = 5V

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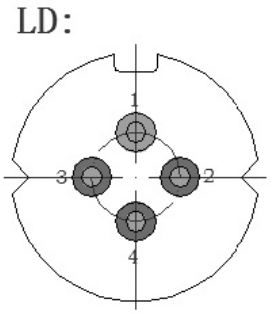
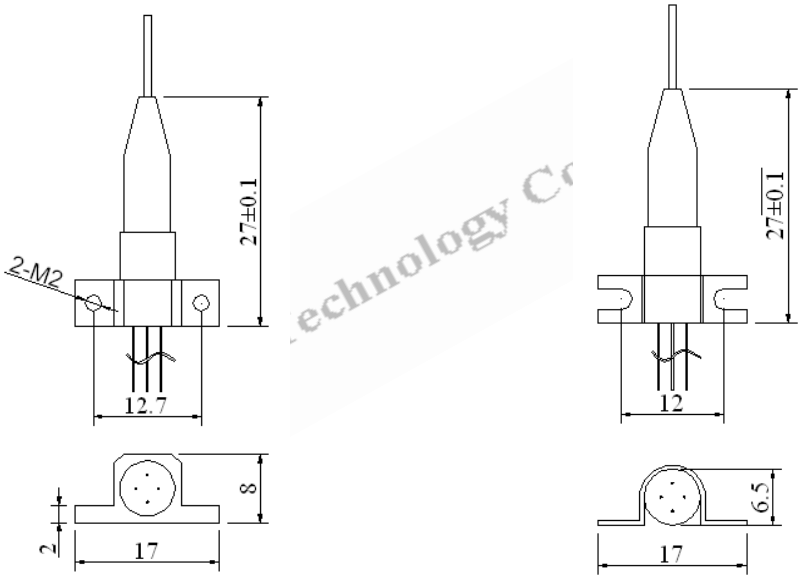
Pin Description:



Type A:
【1】LD +
【2】LD −
【3】PD +
【4】PD −

Package Outline



Order Information

PLD-F492-XAXX

P	LD	-F	49	2	-X	A	X	X
Mode	**Product Type**	**Chip**	**Wavelength**	**Bandwidth**	**Connector**	**Pin**	**Pigtail Length**	**Power Range**
		F：FP	49：1490nm	2：2.5Gb/s	1：FC/APC 2：FC/PC 3：SC/APC 4：SC/PC 5：LC/PC 6：LC/APC	A：725	05：0.5m 10：1.0m	P40：＞40mW P60：＞60mW

Additional requirements can be settled through friendly negotiation.
Shengshi Optical Tech. Co.,Ltd reserves the right to make changes to the product or information contained herein without notice.

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