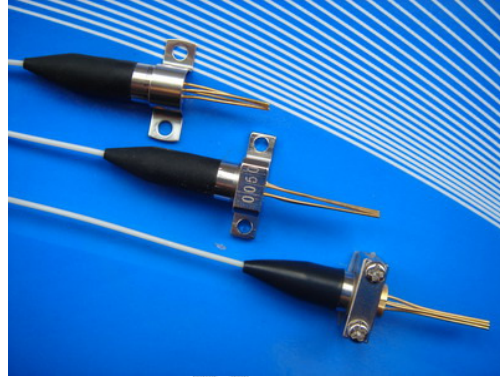


GPDP-20XXXXXX

Long Wavelength PIN PD with Pigtail for Wide Frequency-range Application



Features

- ◆ Low Return Loss
- ◆ Low Dark Current
- ◆ Quick Pulse Response
- ◆ Suitable for CATV Application
- ◆ High Responsibility and High Linearity
- ◆ High Reliability and Long Operation Life
- ◆ RoHS Compliant Products Available

◆ Applications

- ◆ Optical Receiver
- ◆ Test Equipments

General

GPDP-20XXXXXX Series are InGaAs/InP PIN photodiode modules designed for fiber optic communication systems. These modules are with pigtail, and have high responsibility, high speed and low dark current. A photodiode is mounted into a low capacitance coaxial package integrated with a single mode fiber pigtail.

Ordering Information (Standard version ^{*Note1})

Part No.	Wavelength (nm)	Explore Area (um)	Bandwidth (GHz)	Package	Pin Type
GPDP-2020AFAMD	1310~1550	75	2	A	M
GPDP-2022BFAMG	1310~1550	75	3.2	B	M
GPDP-2022CSATG	1310~1550	753	3.2	C	T
GPDP-2020DSATL	1310~1550	75	2	D	T
GPDP-2020EFAML	1310~1550	75	2	E	M

*Note1: For more ordering information, please refer the nomenclature and contact EPOTOLINK sales.

Absolute maximum ratings

Parameter	Symbol	Min	Max	Unit
Storage Temperature	T _{ST}	-40	100	□
Operating Temperature	T _{OP}	-40	85	□
Reverse Voltage	VR	-	20	V
Forward Current	I _{FD}	-	10	mA
Saturation Input Power	P _{IN}	-	10	dBm
Soldering Temperature / Time	Ts/t	-	260/10	°C/s

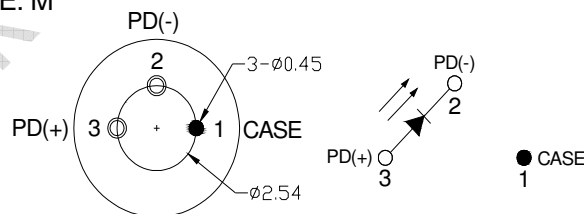
Electrical and optical characteristics

(V_r=5V, T_c=+25°C, unless otherwise noted.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Detection Wavelength Range	λ	-	1100	-	1610	nm
Active Diameter	DA	-	50	75	-	μm
Responsibility	R	VR=-5V@1310nm	0.80	0.85	-	A/W
		VR=-5V@1550nm	0.85	0.90	-	A/W
Return Loss	RL	-	-	-55	-	dB
Dark Current	I _d	VR = 5V	-	0.1	1	nA
Capacitance	C _p	VR = 5V	-	0.6	0.7	pF
Bandwidth	BW	VR=5V	-	-	3.2	GHz

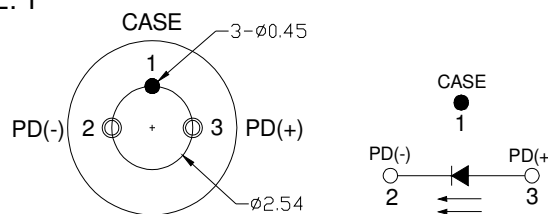
Pin Assignment

TYPE: M



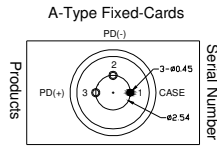
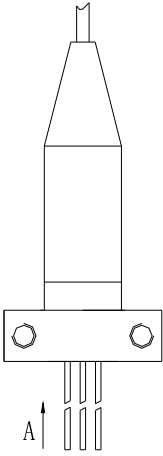
PD-pin-M

TYPE: T

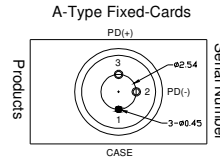


PD-pin-T

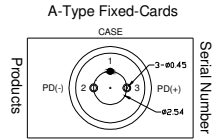
The direction of fix card



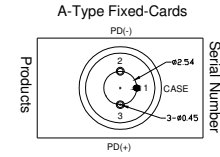
Direction A view
PPDMA-1(DEFAULT)



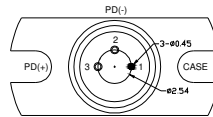
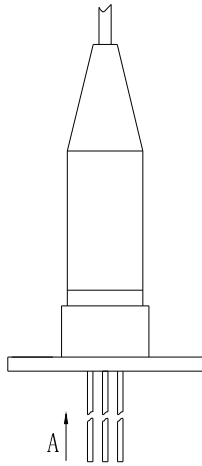
Direction A view
PPDMA-2



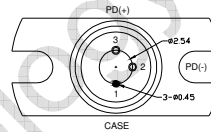
Direction A view
PPDTA-1(DEFAULT)



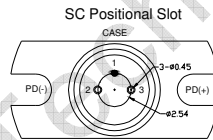
Direction A view
PPDTA-2



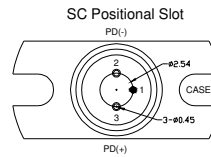
Direction A view
PPDMC-1(DEFAULT)



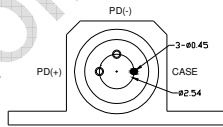
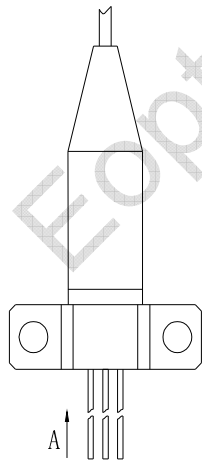
Direction A view
PPDMC-2



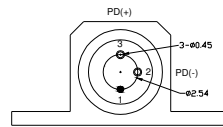
Direction A view
PPDTC-1(DEFAULT)



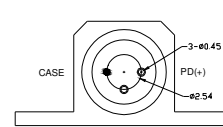
Direction A view
PPDTC-2



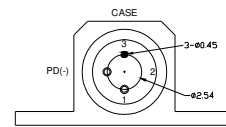
Direction A view
PPDMD-1(DEFAULT)



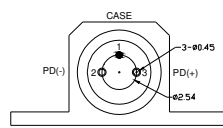
Direction A view
PPDMD-2



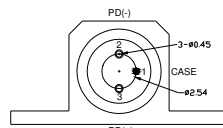
Direction A view
PPDMD-3



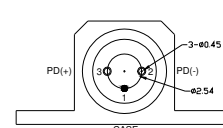
Direction A view
PPDMD-4



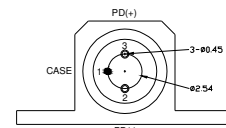
Direction A view
PPDTD-1(DEFAULT)



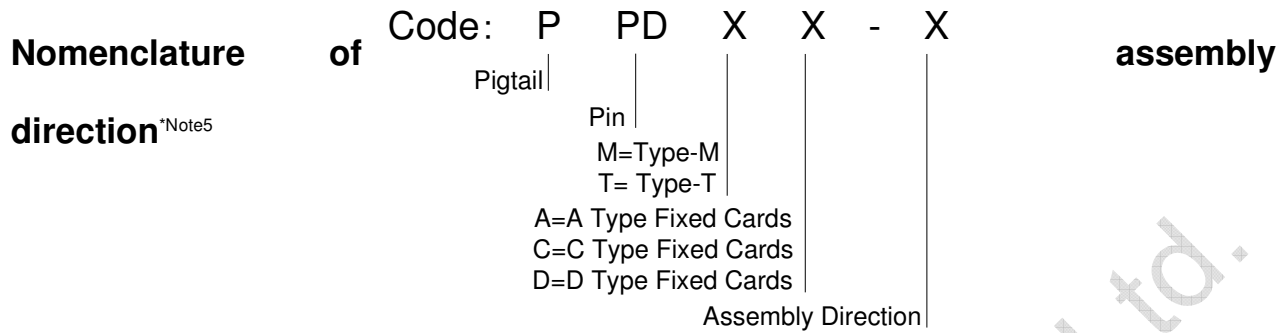
Direction A view
PPDTD-2



Direction A view
PPDTD-3



Direction A view
PPDTD-4



*Note5: Please designate the code of assembly direction.

Ordering Information

G P D P — □ □ □ □ □ □ □ □ □ □
 A B C D E F G H I J

A	Wavelength	20=1100~1610nm					
B	Explore area	1=50μm		2=75μm			
C	Bandwidth	0≤2GHz		1≤2.7GHz	2≤3.2GHz		
D	Package series	A	B	C	D	E	F
E	Connector	F=FC/PC		S=SC/PC	T=ST/PC	SA=SC/APC	
		FA=FC/APC		L=LC/PC		Blank=None	
F	Pin Type	M=PD-pin-M			T=PD-pin-T		
G	TO Type	J		D	L	G	
H	Pass Band Wavelength	Blank=1310/1550nm		3=1310nm		5=1550nm	
I	Fiber Type	Blank=SM			M=MM		
J	Fiber diameter	BLANK=0.9mm	1=0.25mm	2=2.0mm		3=3.0mm	

Precaution

- 1) The modules should be handled in the same manner as ordinary semiconductor devices to prevent the electro-static damages. For safe keeping and carrying, the modules should be packaged with ESD proof material. To assemble the modules on PCB, the workbench, the soldering iron and the human body should be grounded.
- 2) Please pay special attention to the atmosphere condition because the dew on the module may cause

some electrical damages.

- 3) Under such a strong vibration environment as in automobile, the performance and reliability are not guaranteed.

Obtaining Document

You can visit our website:

<http://www.eoptolink.com>

Or contact Eoptolink Technology Inc., Ltd. listed at the end of the documentation to get the latest documentation.

Revision History

Version	Initiated	Reviewed	Approved	Release Date
Va-4	Zore.Zhao	Kelly.Cao		2009-12-22

Notice:

Eoptolink reserves the right to make changes or discontinue any product or service identified in this publication, without notice, in order to improve design and/or performance. Applications that are described herein for any of the products are for illustrative purposes only. Eoptolink makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Contact:

Add: Floor 5, Building 2, No. 21 Gaopeng Avenue, High-Tech District, CHENGDU, SICHUAN 610041 P.R.
CHINA

Tel: (+86) 028-85122709 ext 816 & 809

Fax: (+86) 028-85121912

Postal: 610041

E-mail:sales@eoptolink.com

<http://www.eoptolink.com>