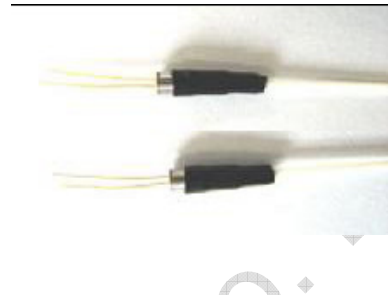


GPDP-2020EXDH

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

Features

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



Applications

- ◆ CATV Application
- ◆ Optical Receiver
- ◆ Test Equipments

General

GPDP-2020EXDH Series are MINI InGaAs PIN Photodetector 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)	Bandwidth (GHz)	Connector	Package	Pin Type
GPDP-2020EFADH	1100~1610	1.5	FC/APC	E	D
GPDP-2020ESADH	1100~1610	1.5	SC/APC	E	D

*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}	-	4/8	mA
Saturation Input Power	P _{IN}	-	10	dBm

Soldering Temperature / Time	Ts/t	-	260/10	°C/s
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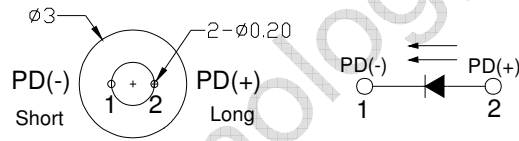
Electrical and optical characteristics

(Vr=5V, Tc=+25°C, unless otherwise noted.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Detection Wavelength Range	λ	-	1100	-	1610	nm
Active Diameter	DA	-		75	-	μm
Responsibility	R	VR=-5V@1310nm		0.80	-	A/W
		VR=-5V@1550nm		0.85	-	A/W
Return Loss	RL	-	-	-55	-	dB
Dark Current	Id	VR = 5V	-	0.3	1	nA
Capacitance	Cp	VR = 5V, f=1MHz	-	0.6	6	pF
Bandwidth	BW	VR=5V	-	1.5		GHz

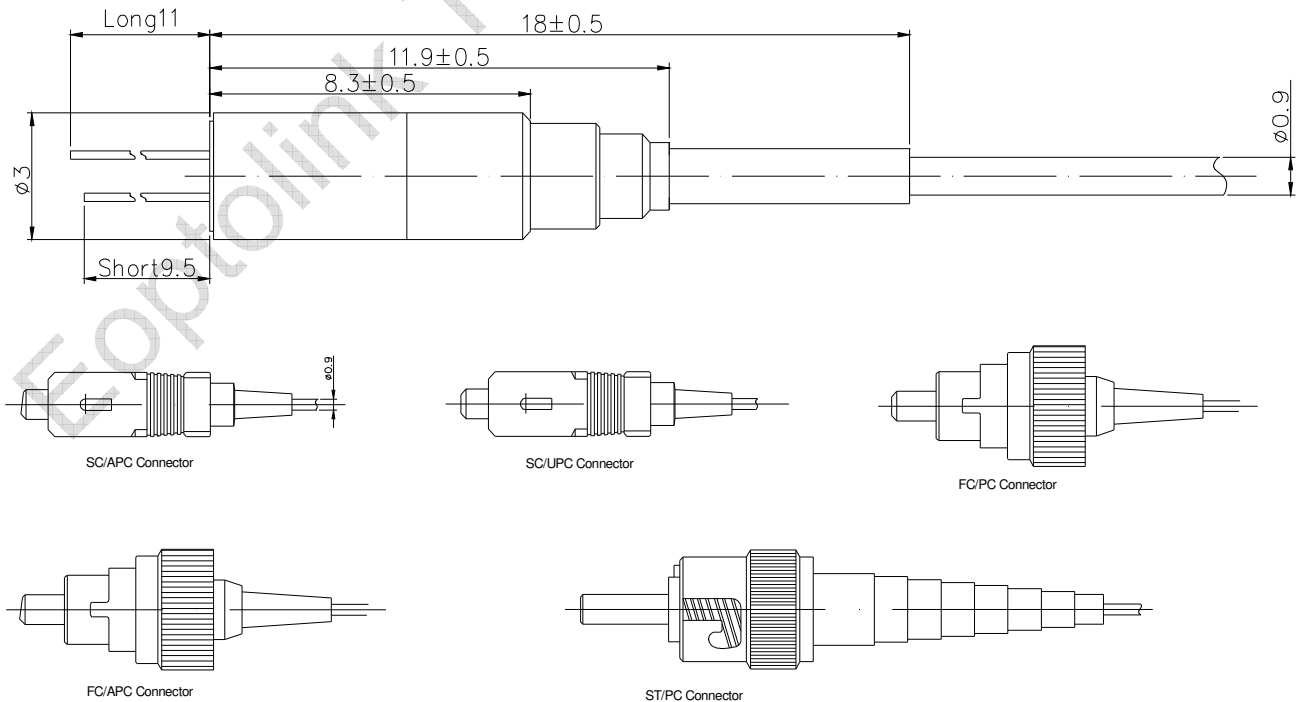
Pin Assignment

TYPE: D



PD-pin-D

Pigtail Package dimension ^{*Note12}



*Note2: laser mark can be customized. Pigtail is standard SM fiber; the length also can be customized.

Nomenclature

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

A	Wavelength	20=1100~1610nm			
B	Explore area	2=75μm			
C	Bandwidth	0≤1.5GHz			
D	Package series	E			
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	D=PD-pin-D			
G	TO Type	H			
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

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

Notice:

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