

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

HEPDP-2020EFAM

Features:

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



Applications:

- Optical Receiver
- ◆ Test Equipments

General:

HEPDP-2020EFAM 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
HEPDP-2020EFAM	1310~1550	75	2	E	M

^{*}Note1: For more ordering information, please refer the nomenclature and contact HighEasy sales.

Absolute Maximum Ratings: *Note1

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	T _{ST}	-40	100	${\mathbb C}$
Operating Temperature	T _{OP}	-40	85	${\mathbb C}$
Reverse Voltage	VR		20	V
Saturation Input Power	P _{IN}		10	dBm
Soldering Temperature / Time	Ts/t		260/10	°C/ _S

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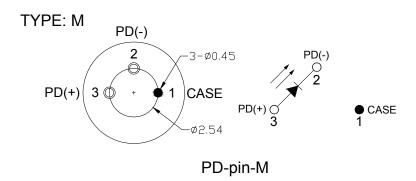


Electrical and Optical Characteristics:

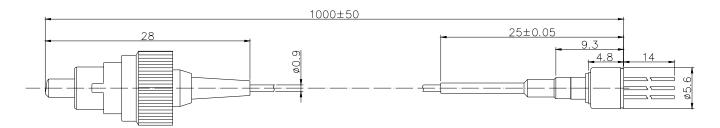
(Vr=12V, Tc=+25°C, unless otherwise noted.)

Parameter	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Detection Wavelength Range	λ	1	1100		1650	nm
Active Diameter	DA	-		75		μm
Responsivity	R	VR=-5V@1310nm	0.80	0.85		A/W
		VR=-5V@1550nm	0.85	0.90		A/W
Return Loss	RL	1			-50	dB
Dark Current	ld	VR = 5V		0.15	1	nA
Capacitance	Ср	VR = 5V		0.6	0.7	pF
Bandwidth	BW	VR=5V		2		GHz
IMD2	CSO	λ=1310nm		-75	-70	dBc

Pin Assignment:



Pigtail Package Dimension: *Note2



*Note2: Standard FC/APC connector and SMF pigtail.

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Nomenclature:

HEPDP- <u>□</u>							
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Α	Wavelength	20=1100~1650nm				
В	Explore Area	2=75μm				
С	RF Bandwidth	0≤2GHz				
D	Package Series	E				
E	Connector	FA=FC/APC				
F	Pin Type	M=PD-pin-M				
G	Pass Band Wavelength	Blank=1310/1550nm 3=1		310nm	5=1550nm	
Н	Fiber Type	Blank=SM			M=MM	
I	Fiber Diameter	BLANK=0.9mm	2=2.0mm 3=3.0mm		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.

Notice:

HighEasy 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. HighEasy makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

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