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

OSMPDP-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:

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

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

Absolute Maximum Ratings: *Note1

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

ADD: No.189, BINHE ROAD,HUAYANG,TIANFU NEW AREA,CHENGDU,SICHUAN,CHINA 610213
TEL: +86-28-64570369
FAX: +86-28-64570369
E-mail: sales@osemos.com http://www.osemos.com

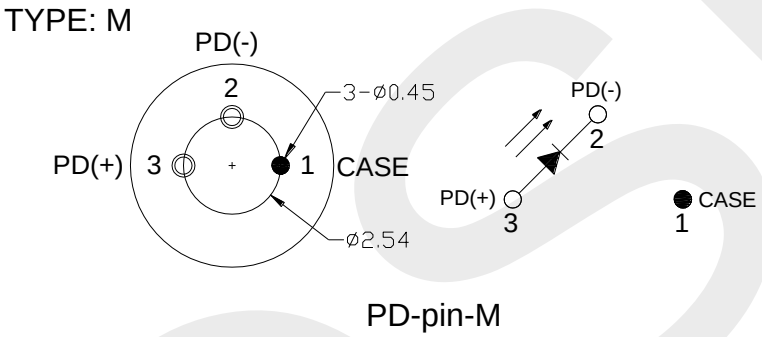
Electrical and Optical Characteristics:

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Detection Wavelength Range	λ	-	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	-	---	---	-50	dB
Dark Current	Id	VR = 5V	---	0.15	1	nA
Capacitance	Cp	VR = 5V	---	0.6	0.7	pF
Bandwidth	BW	VR=5V	---	2	---	GHz
IMD2	CSO	λ=1310nm	---	-75	-70	dBc

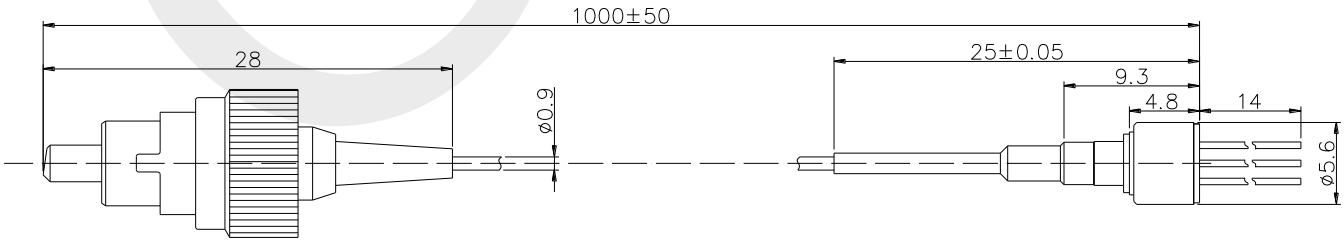
Pin Assignment:

TYPE: M



PD-pin-M

Pigtail Package Dimension: *Note2



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

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Nomenclature:

OSMPDP-□ □ □ □ □ □ □ □ □

A B C D E F G H I

A	**Wavelength**	20=1100～1650nm		
B	**Explore Area**	2=75μm		
C	**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=1310nm	5=1550nm
H	**Fiber Type**	Blank=SM	M=MM	
I	**Fiber Diameter**	BLANK=0.9mm	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.

Notice:

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