

GPDR-2020xMX

Long Wavelength PIN Photodiode Module (Receptacle Module)



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

- 1) Optical Receiver
- 2) Test Equipments

Ordering Information (Standard version ^{*Note1})

Part No.	Wavelength (nm)	Explore Area (um)	Bandwidth (GHz)	Package	Pin Type
GPDR-2020AMX	1260~1620	75	2	A	M
GPDR-2020BMX	1260~1620	75	2	B	M
GPDR-2020DMX	1260~1620	75	2	D	M
GPDR-2020EMX	1260~1620	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	°C
Operating Temperature	T _{OP}	-40	85	°C
Reverse Voltage	VR	-	20	V
Saturation Input Power	P _{IN}	-	10	dBm
Soldering Temperature / Time	Ts/t	-	260/10	°C/s

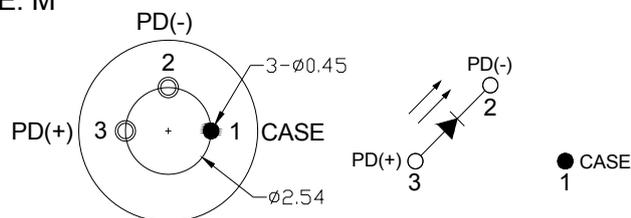
Electrical and optical characteristics

(V_r=5V, SMF (9.5/125μm), T_c=+25°C, unless otherwise noted.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Detection Wavelength Range	λ		1260	-	1620	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		-	-	-40	dB
Dark Current	I _d	VR = 5V	-	0.1	1	nA
Capacitance	C _p	VR = 5V	-	0.6	1	pF
Bandwidth	BW	VR=5V	1.5	-	-	GHz

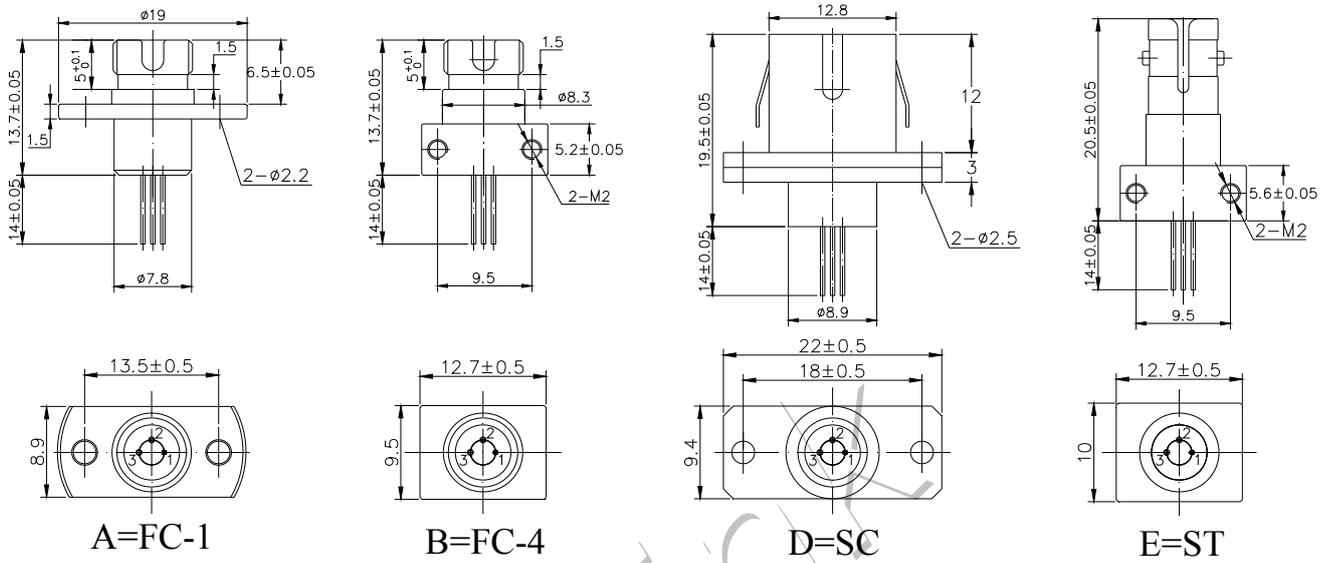
Pin Assignment

TYPE: M

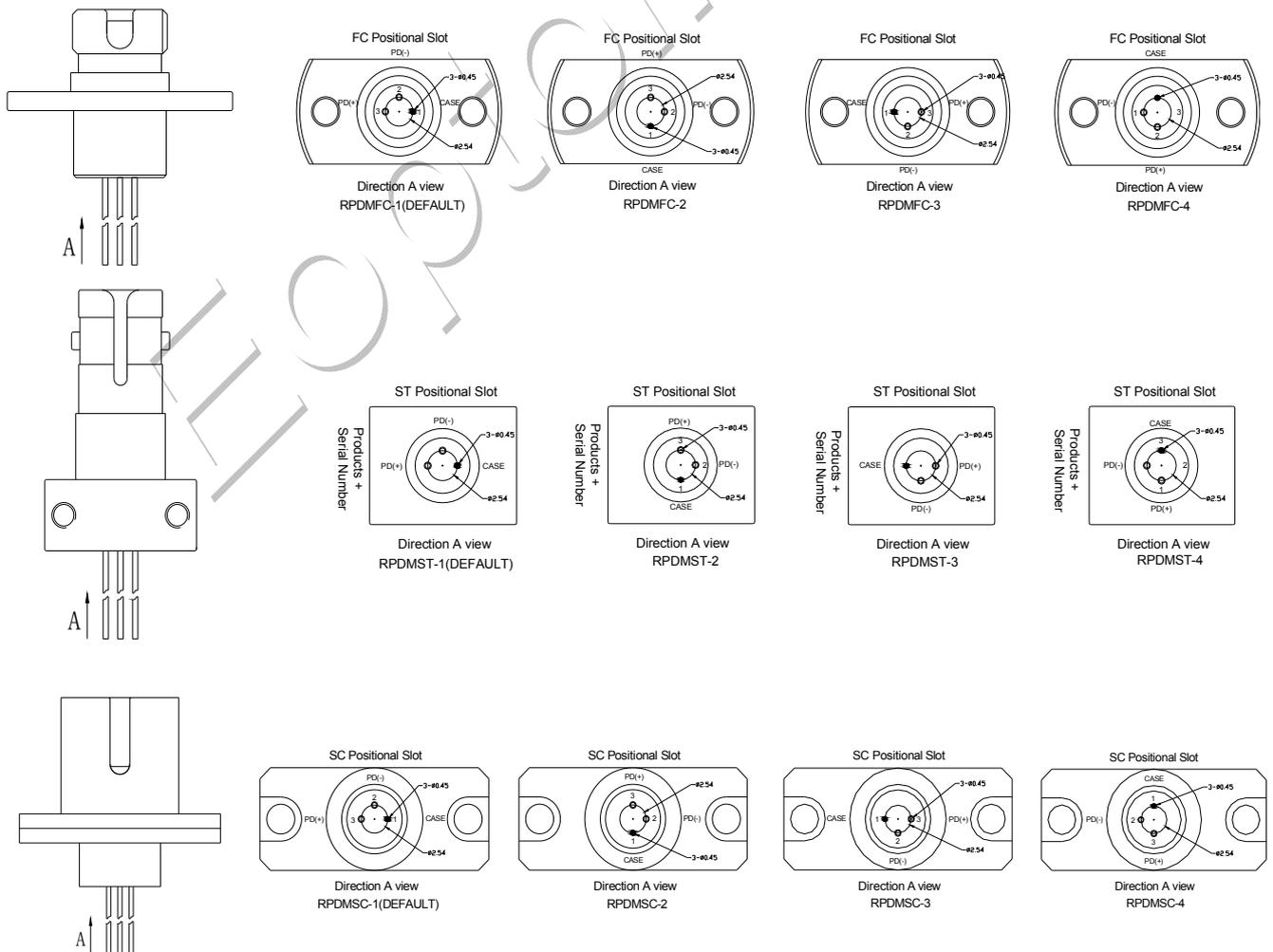


PD-pin-M

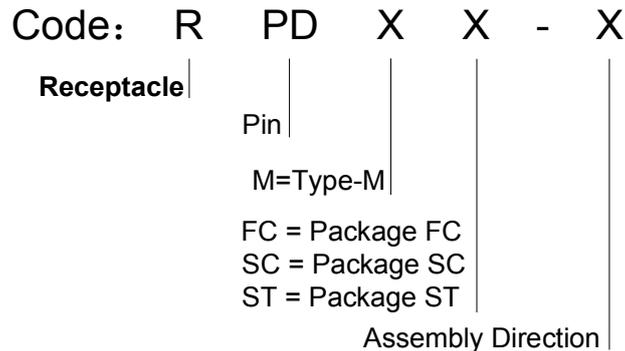
Receptacle Package series



The direction of fix card



Nomenclature of assembly direction ^{*Note2}



*Note2: Please designate the code of assembly direction.

Nomenclature



A	Wavelength	20=1260~1620nm				
B	Explore area	2=75μm				
C	RF Bandwidth	0≤2GHz				
D	Package series ^{*Note3}	A=FC-1	B=FC-4	D=SCPD-Y-2	E=ST	
E	Pin Type	M=PD-pin-M				
F	TO Type	X				
G	Fiber diameter	Blank=SM			M=MM	

*Note3 *Please refer the receptacle package series illustration.

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	Revision History	Release Date
Va-1	Yinchun.Zhao	James.liu	Vincent.yu	Released.	2023.1.20

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