

InGaAs PIN Pigtail ROSA with WDM

FW-PD6533N2-xx

1. Description:

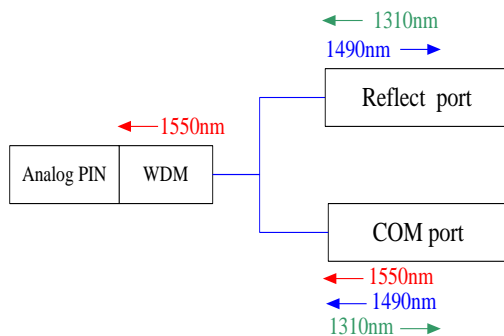
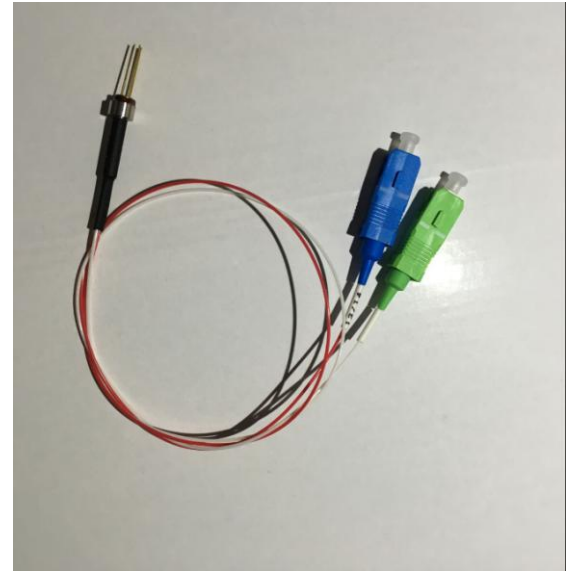
The FW-PD6533N2-xx is a InGaAs PIN Pigtail ROSA modules have been designed specifically for PON/CATV receiver over a single fiber with a WDM. The devices are particularly suited for PON/CATV application.

2. Features:

Plannar semiconductor design and dielectric passivation
 Superior noise and photoelectric performance
 Operate temperature from -20°C to +75°C
 For analog application, Built-in 1550nm WDM
 9/125um Single-mode fiber
 Follow RoHS

3. Application:

- PON/CATV receiver
- Other analog transmission system



4. Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Condition
Module					
Operating Case Temperature	Top	-20	+75	°C	
Storage Temperature	Tstg	-40	+85	°C	
Solderability	Stemp	--	350°C(<5S)	°C,S	ANSJ/J-ATD-002
			260°C(<10S)	°C,S	
ESD susceptibility	ESD	--	300	V	
Analog PIN					
Reverse Voltage	Vr	--	20	V	
Forward Voltage	Vf	--	0	V	
Saturated Optical Power	Ps	--	6	dBm	Vr=12V,1550nm
Forward Current	If	--	10	mA	
Reverse Current	Ir	--	10	mA	

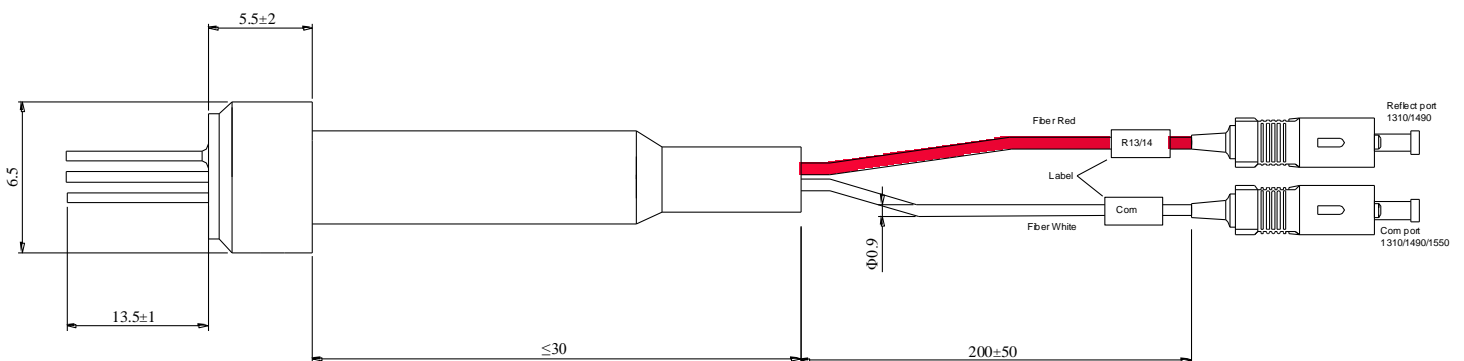
5. Optical/Electrical Characteristics (T=25°C , unless otherwise stated)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Operation Wavelength	λ	1542.5	1550	1557.5	nm	1550nm(Transmission)
		1260	-	1537.5	nm	(Reflection)
Dark Current	Id	--	0.1	1	nA	P=0mw, Vr=5V
Insert Loss	IL			0.8	dB	(Reflection)
				0.6		1550nm(Transmission)
Isolation	ISO	18			dB	Rflect band
		34				Pass band
Return Loss(dB)	ORL	40			dB	1550nm
Responsivity	RE	0.85	0.95	--	A/W	Vr=5V, λ =1550nm
Capacitance	C	--	0.45	0.7	PF	f=1MHZ, Vr=5V, Ee=0
-3dBm Bandwidth	BW	2	--	--	GHZ	RL=50 Ω , Vr=5V
Saturated Optical Power	Ps	+3	--	--	dBm	Vr=0V
2 nd Order Inter-Modulation	IMD2	--	--	-70	dBc	RL=50 Ω ,Vr=12V (1*)
3 rd Order Inter-Modulation	IMD3	--	--	-80	dBc	RL=50 Ω ,Vr=12V (1*)

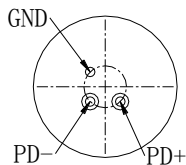
Note: 1* Fiber-Grid's test scenario: Two tone two laser test (f1=373.25MHZ, f2=451.25MHZ), OMI=40%, 0.5mW Per Laser

6. Dimensions And Pin Type

6.1 Dimensions(mm)



6.2 Pin Type(Bottom View)



7. Order information

Model	COM port Connector	Reflect Port Connector
FW-PD6533N2-11	SC/PC	SC/PC
FW-PD6533N2-21	SC/APC	SC/PC
FW-PD6533N2-22	SC/APC	SC/APC

8. Contact us

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