

CATV FTTH Micro O/E Converter

FG-PD402RFS-xx

1. Description:

The FG-PD402RFS-xx is a InGaAs PIN with a RF Connector modules have been designed specifically for FTTH /CATV receiver over a single fiber. The devices are particularly suited for FTTH/CATV application.

2. Features:

Designed For FTTH(Fiber To The Home Network)
 No Power Required
 Good Linearity and Flatness
 Frequency range 40-1000MHz For CATV End-users
 Optical Connector: SC/APC Receptacle
 Much smaller size and very easy install
 Follow RoHS

3. Application:

- FTTH/CATV receiver
- Other analog transmission system

4. Absolute Maximum Ratings



Parameter	Symbol	Min	Max	Unit	Condition
Module					
Operating Case Temperature	Top	-40	+85	°C	
Storage Temperature	Tstg	-40	+85	°C	
ESD susceptibility	ESD	--	500	V	
Power Input Voltage	VDC	--	0	V	
Power Consumption	mA	--	N/A	mA	

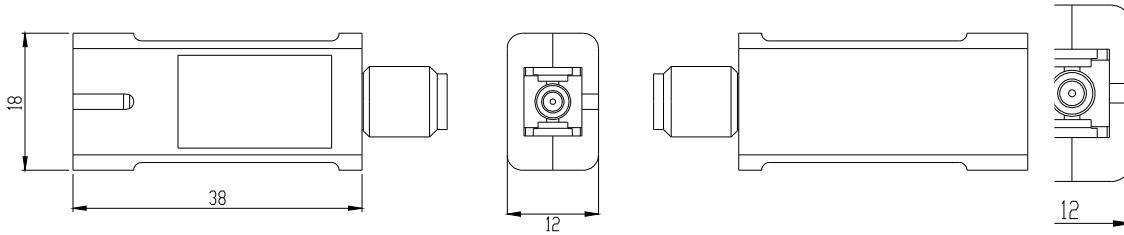
5. Optical/Electrical Characteristics (T=25°C , unless otherwise stated)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Operation Wavelength	λ	1100	--	1650	nm	FG-PD402RFS-FC FG-PD402RFS-MC
Operation Wavelength	λ	1540	1550	1560	nm	FG-PD402RFS-F5 FG-PD402RFS-M5
Frequency Range	FR	40	--	1000	MHz	
Flatness	FL	-0.5	--	0.5	dB	
Input Optical Power		-15		0	dBmW	
Output Level 1	OL	68	--	--	dBuv	P=-1dBmW
Output Level 2	OL	50	--	--	dBuv	P=-10dBmW
Isolation*1		40			dB	1550nm/1490nm, 1550nm/1310nm

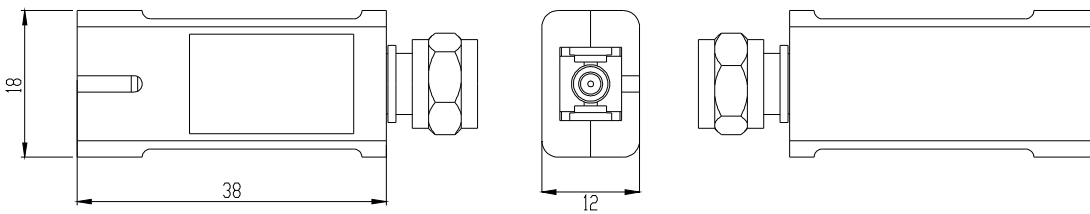
*1:Only for FG-PD402RFS-F5 and FG-PD402RFS-M5, Built-in 1550nm Filter, isolate FTTH's ONU and OLT Light source(1310nm /1490nm).

6. Dimensions And Pin Type

Dimensions are in millimeters. All dimensions are $\pm 0.5\text{mm}$ unless otherwise specified.







RF -F connector



RF -M connector

7. Order information

Model	Description	Note
FG-PD402RFS-MC	Britich, 75Ω,M-connector	
FG-PD402RFS-M5	Britich, 75Ω,M-connector, Built-in 1550nm Filter, isolate 1310nm and 1490nm	
FG-PD402RFS-FC	Britich, 75Ω,F-connector	
FG-PD402RFS-F5	Britich, 75Ω,F-connector, Built-in 1550nm Filter, isolate 1310nm and 1490nm	

8. Contact us

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