



# ROF-PD-10G 10GHz high-speed light detection module Product description



## Product description

The ROF-PD-10G 10GHz high-speed light detection module uses high-performance 10GHz PIN detector, single-mode / multi-mode fiber coupling input, SMA connector output, having high gain, high sensitivity, DC / AC coupling output, gain flat and other Features, mainly being used in high-speed optical fiber transmission system, ROF and optical fiber sensing systems and other fields

## Features

- Spectral range: 850~1650nm
- 3dB bandwidth up to 10GHz
- Optical fiber coupling output

## Applications

- High-speed optical pulse detection
- High-speed optical communication
- Microwave link
- Brillouin optical fiber sensing system



**Performance parameters**

Parameter	Symbol	Unit	Min	Typ	Max	Test condition
Response wavelength		nm	850		1650	
-3dB Bandwidth	BW	GHz	10			
Dark circuit	I <sub>d</sub>	nA			10	25°C
Responsiveness	R	A/W	0.8			λ=1550nm
Rise time	Tr	ps		35		
Polarization independent loss	PDL	dB	0.2		0.6	
Optical return loss	ORL	dB			-35	
Gain	G	V/W		40	-	

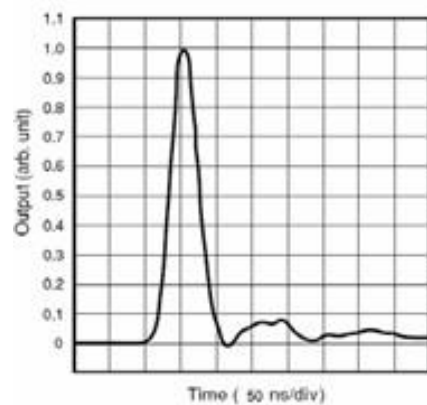
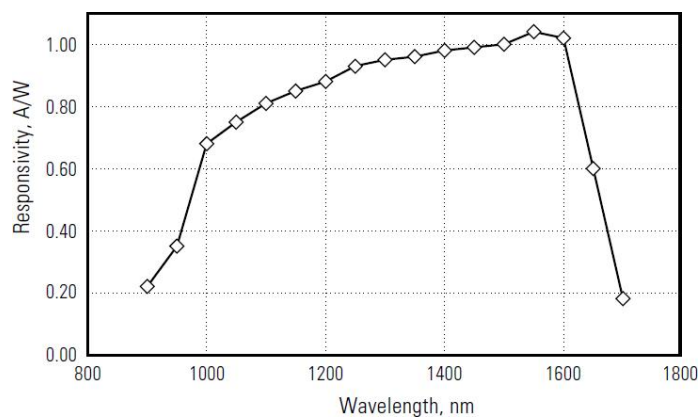
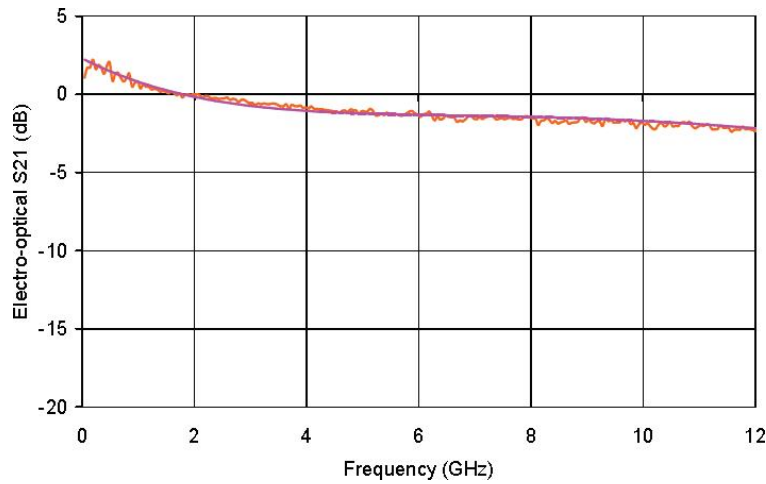
Electrical return loss	S22	dB			-10	DC-10GHz
Output impedance	Z			50		
Operating voltage	V <sub>op</sub>	V	DC 5V			
Dimension	L x W x H	mm	100 x 100 x 34			
Input fiber		Single-mode /multimode fiber				
Fiber connector		FC/PC、FC/APC				
Output connector		SMA(f)				



limit conditions

Parameter	Symbol	Unit	Min	Typ	Max
Input optical power	Pin	mW			10
Operating voltage	Vop	V	4.5		6.5
Operating temperature	Top	°C	-10		60
Storage temperature	Tst	°C	-40		85
Humidity	RH	%	5		90

Characteristic curve





**Ordering information**

ROF	PD	10G	A	XX	XX	XX
	Photodetector	-3dBbandwidht: 10---10 GHz	Operating wavelength : 850~1650 nm	SM----single mode fiber  MM ----multimode fiber	Connector type : FP ---FC/PC FA ---FC/APC	Coupling method  DC AC

\*please contact our seller if you have special requirements