

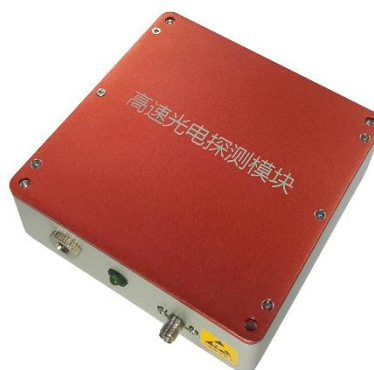
R-PD 70GHz high-speed light detection module

Product description

R-PD 70GHz high-speed light detection module uses high-performance 70G PIN detector, single-mode coupling input, V connector output, having high gain, high sensitivity, DC coupling output, mainly being used in high-speed optical fiber transmission system, ROF and optical fiber sensing systems and other fields.

Features

- Spectral range: 1550nm
- 3dB bandwidth : 70GHz
- Response time : 5ps
- Compact structure, V connector output



Applications

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

Performance parameters

Parameter	Symbol	Unit	Min	Typ	Max	Test condition
Response wavelength		nm	1260		1570	
-3dB Bandwidth	BW	GHz		68	70	
Dark circuit	Id	nA		20	60	25° C
Responsiveness	R	A/W	0.5	0.6		$\lambda=1550\text{nm}$
Rise time	Tr	ps		5		
Polarization dependent loss	PDL	dB		0.02	0.05	
Optical return loss	ORL	dB		-8	-6	
Gain	G	V/W		30	-	
Electrical return loss	S22	dB		-10	-8	
output impedance	Z			50		



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Beijing Rofea Optoelectronics Co., Ltd.

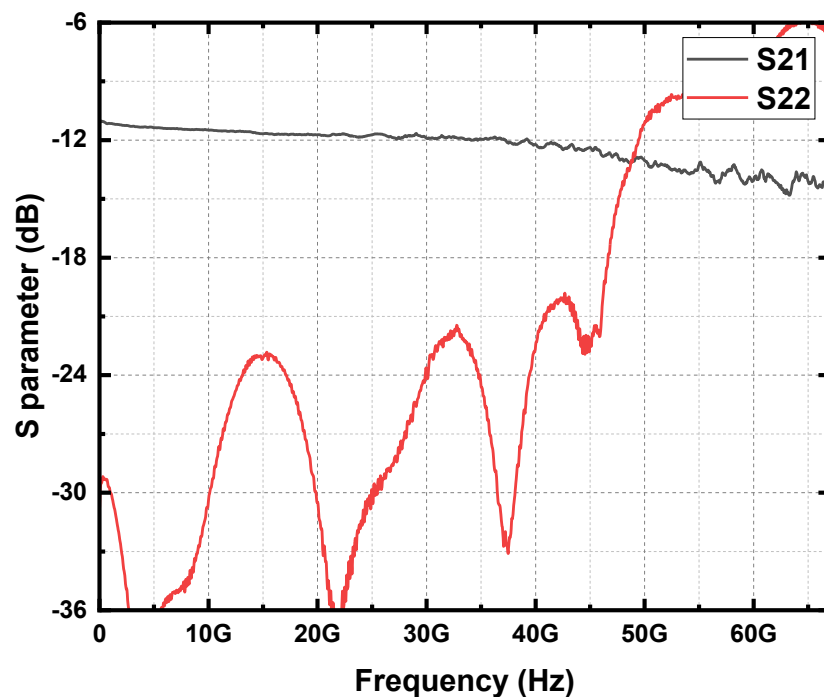
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Operating voltage	Vop	V	DC 12V
Dimensions	LxWxH	mm	103.4 x 101.4 x 34
Input fiber		Single-mode fiber multimode fiber	
Fiber connector		FC/PC、FC/APC	
Output interface		V(f)	

limit condition

Parameter	Symbol	Unit	Min	Typ	Max
Input optical power	Pin	mW		5	
Operating voltage	Vop	V	-	12	-
Operating temperature	Top	°C	-10		60
Storage temperature	Tst	°C	-40		85
Humidity	RH	%	5		90

Characteristic curve



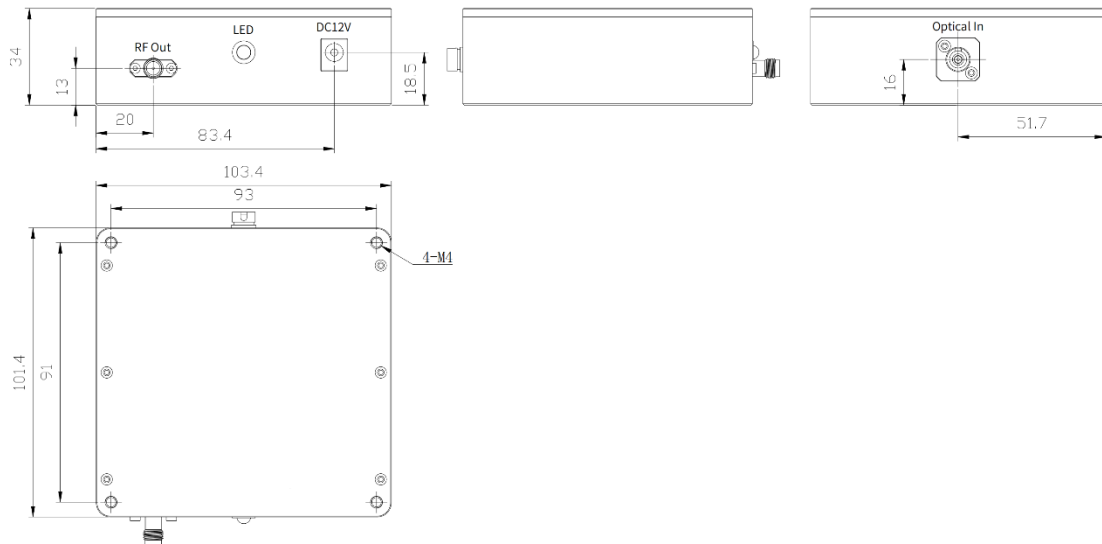
frequency response curve



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Dimensions (mm)



Ordering information

R	PD	70G	A	XX	XX	XX
	Photodetector	-3dB bandwidth 70---70 GHz	Operating wavelength: 1260~1570 nm	SM---- single-mode fiber	Connector type FP ---FC/PC FA ---FC/APC	Coupling method : DC

*please contact our seller if you have special requirements