

ROF-PD-1G 1GHz



analog light detection module

Product description

The ROF-PD-1G 1GHz analog optical detection module uses low noise and high speed PIN detector with high response speed and high bandwidth. It is available in single-mode fiber or free space coupling and SMA connector output. It is mainly used in fiber laser Testing, photoelectric detection system, oscilloscope front photoelectric converter and optical fiber sensing system.

Features

- 200nm-2300nm Multiple bands are available
- Low noise
- No amplifier less loss
- Miniaturized package, built-in M6 threaded hole, easy to install and use
- Optical fiber and space coupling output optional

Applications

- Optical fiber sensing
- Optical fiber laser test
- Oscilloscope front photoelectric converter
- Photoelectric detection system

performance parameters

Parameter	Symbol	Unit	A	B
Response wavelength		nm	850-1650	320-1000
Photosensitive surface diameter*	∅	um	75	200
Responsiveness	R	A/W	0.9@1550nm	0.5@700nm
-3dB Bandwidth	BW	GHz	1	1
Rise time	trise	ns	0.3	0.3
Gain	Gain	V/W	45	25
Saturation optical power	Ps	mW	5	5
Output impedance	Ro		50	
Operating voltage	Vop	V	5	

sales@rof-oc.com

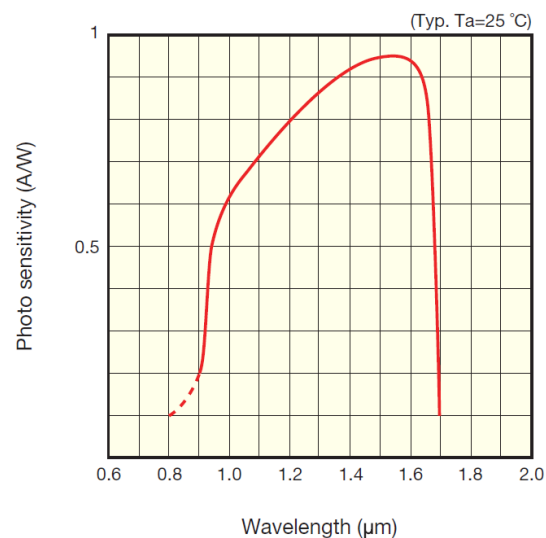
address: www.rof-oc.com

Dimension	LxWxH	mm	61.5× 50 × 20
Output connector		SMA(f)	
Input method		Optical fiber 、Freespace	
Fiber connector		FC	

limit conditions

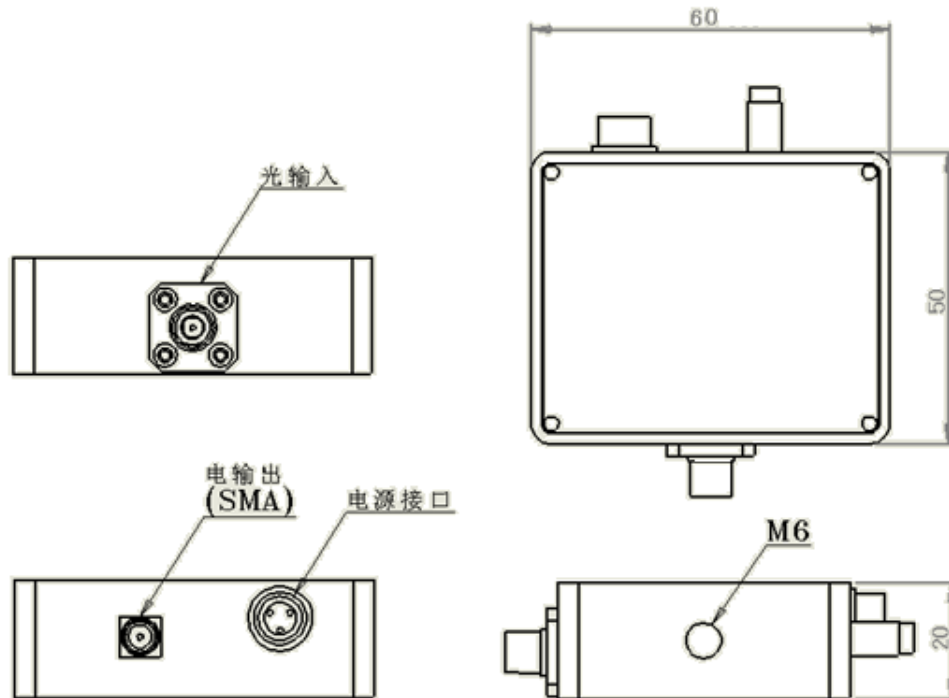
Parameter	Symbol	Unit	Min	Typ	Max
Input optical power	Pin	mW			10
Operating voltage	Vop	V		5	6
Operating temperature	Top	°C	-10		60
Storage temperature	Tst	°C	-40		85
Humidity	RH	%	5		90

Characteristic curve



spectral response curve

Dimensions (mm)



Ordering information

ROF	PD	1G	X	XX	FC
	Photodetector	-3dB Bandwidth: 1GHz	Operating wavelength A:850~1650nm B:320-1000nm	Input type: FC ----optical fiber FS ----Free space	Connector type: FC

*please contact our seller if you have special requirements