ROF -BPR Series 200M Balanced Light Detection Module

Product description

ROF -BPR series of balanced light detection module integrates two matching photodiode and an ultra-low noise transimpedance amplifier, effectively reducing the laser noise and common mode noise, improving the system's noise ratio, having a variety of spectral response optional , Low noise, high gain, easy to use and so on, Mainly being used for spectroscopy, heterodyne detection, optical delay measurement, optical coherence tomography and other fields.

Features

- Spectral range： 320-1000、850-1650nm
- 3dB bandwidth 200MHz
- Low noise
- High gain
- DC 15Vpower supply

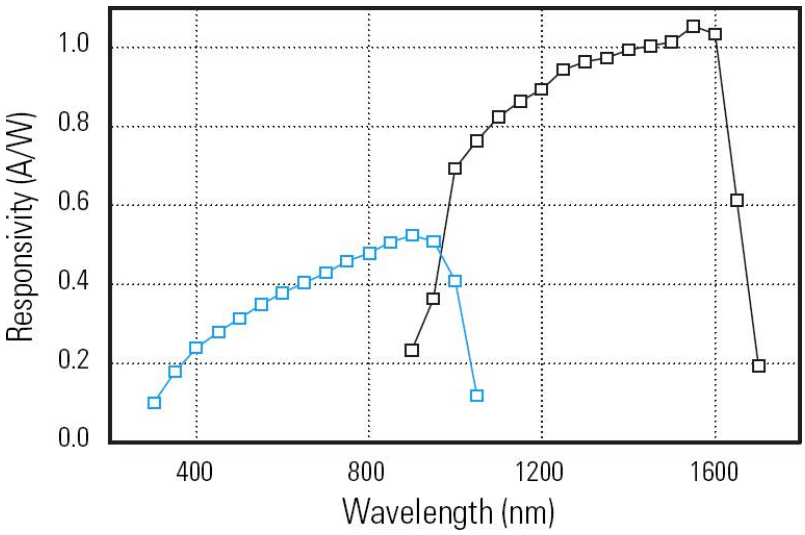
Applications

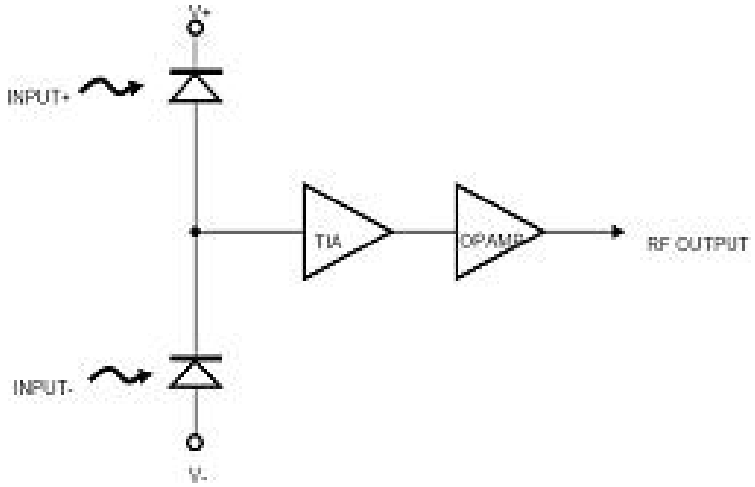
- Heterodyne detection
- Optical delay measurement
- Optical fiber sensing system
- （OCT）

Performance parameters

Type parameter	ROF-BPR-200M-A	ROF-BPR-200M-B
Spectral response range	850~1650nm	320~1000nm
Material type	InGaAs	Si
Light input		
Responsiveness	0.9A/W@1550nm	0.5A/W@700nm
3dB Bandwidth	DC-200MHz	DC-200MHz
Rise time	1.5ns	1.5ns
CMRR	>20dB	>20dB
Gain @RF output	1.1×104V/W	0.6×104V/W
Noise equivalent power	7pw/√Hz	14pw/√Hz
Saturated optical power @RF output	-5dBm	-2dBm
Power supply	DC ±12V	
Input flange	FC	
Output connector	SMA	
Output impedance	50	
Output coupling method	AC	
Max input optical power	10mW	
Operating temperature	0-40℃	
Storage temperature	-40~85℃	
Dimensions	78 x 68 x 45 mm	

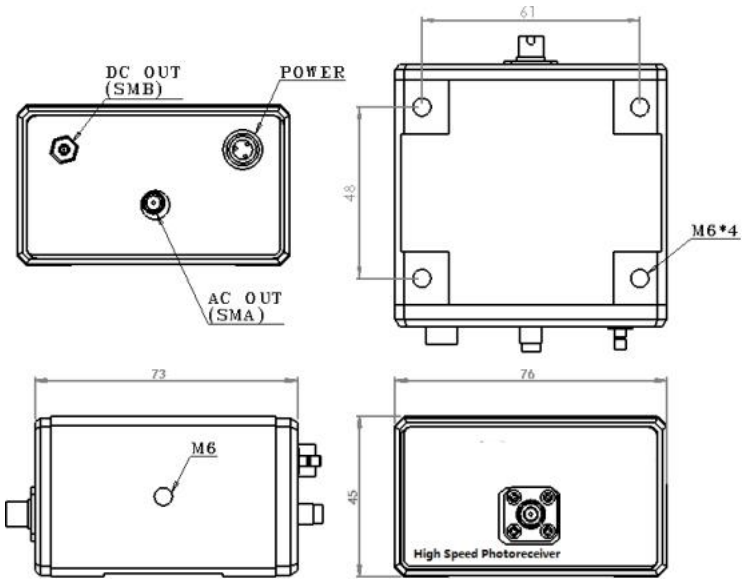
Characteristic curve





Spectral response curve Internal circuit diagram

Dimensions（mm）



Ordering information

ROF	BPR	XXX	X	XX
	detection module type： BPR—Balanced Photoreveiver	Operating bandwidth： 200M---200MHz	Wavelength response range A--- 850~1650nm	Coupling method: FC

*please contact our seller if you have special requirements