

## Balanced Photoreceiver

Model: OPR-BD2G-L

### Features

- FC Fiber Inputs
- InGaAs Detector: 900-1700nm
- >20 dB Common Mode Rejection Ratio
- Provide customized services

### Applications

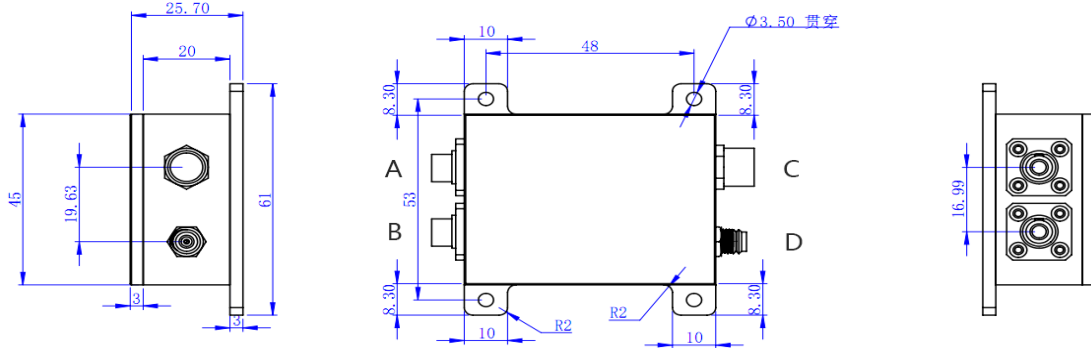
- Spectroscopy
- Laser wind measurement
- Optical Coherence Tomography OCT
- Optical Delay Measurements
- THz Detection



### Electrical and optical characteristics( $T=23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ , Humidity= $35\% \pm 15\%$ )

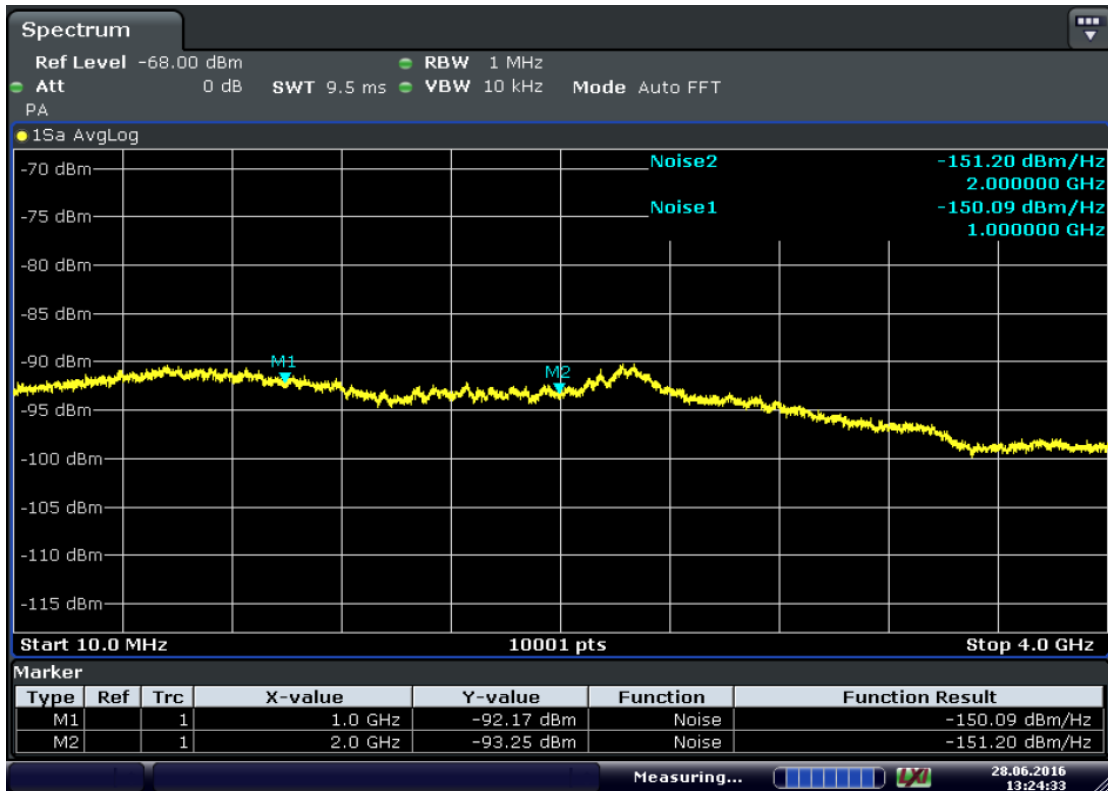
Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Spectral response range		900~1700			nm
Detector Diameter		75			$\mu\text{m}$
-3dB bandwidth	BW	2			Ghz
Detector responsiveness	$R_V$		1.0		$\text{A/W}$
Transimpedance gain	G	1			$\text{KV/A}$
Saturation input optical power	$P_{in}$		1000		$\mu\text{W}$
Incident power	$P_{IN(MAX)}$		5	5	mW
Over output voltage noise	N		1.2		mV <sub>pp</sub>
Common-mode Rejection Ratio	CMRR		25		dB
Output impedance	$R_O$		50		
Supply voltage	$V_{CC}$		$\pm 12$		V
Supply current	$I_{CC}$		100		mA
Optical input		FC/PC or FC/APC or Free Space			
Signal output		SMA			

## Package Drawings (Unit: mm)



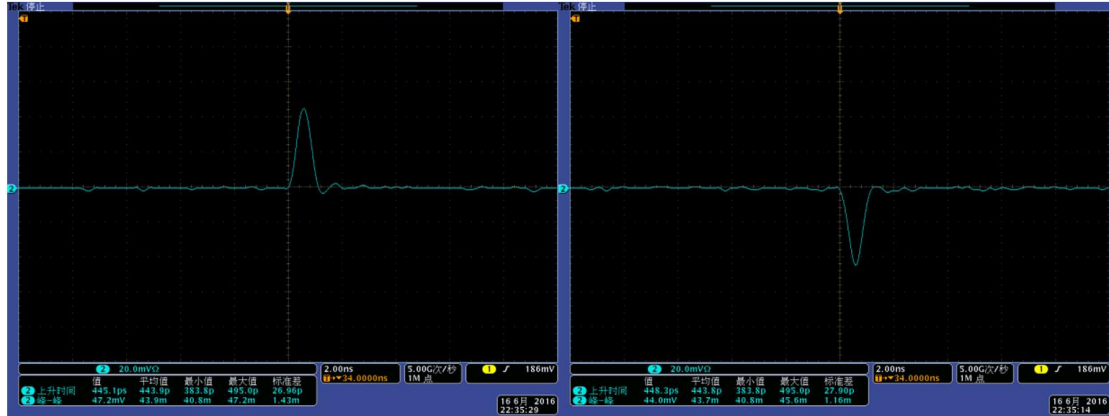
A, B are optical input interfaces (FC), C is power input interfaces (M8), and D is signal output interfaces (SMA).

## Noise spectral density distribution



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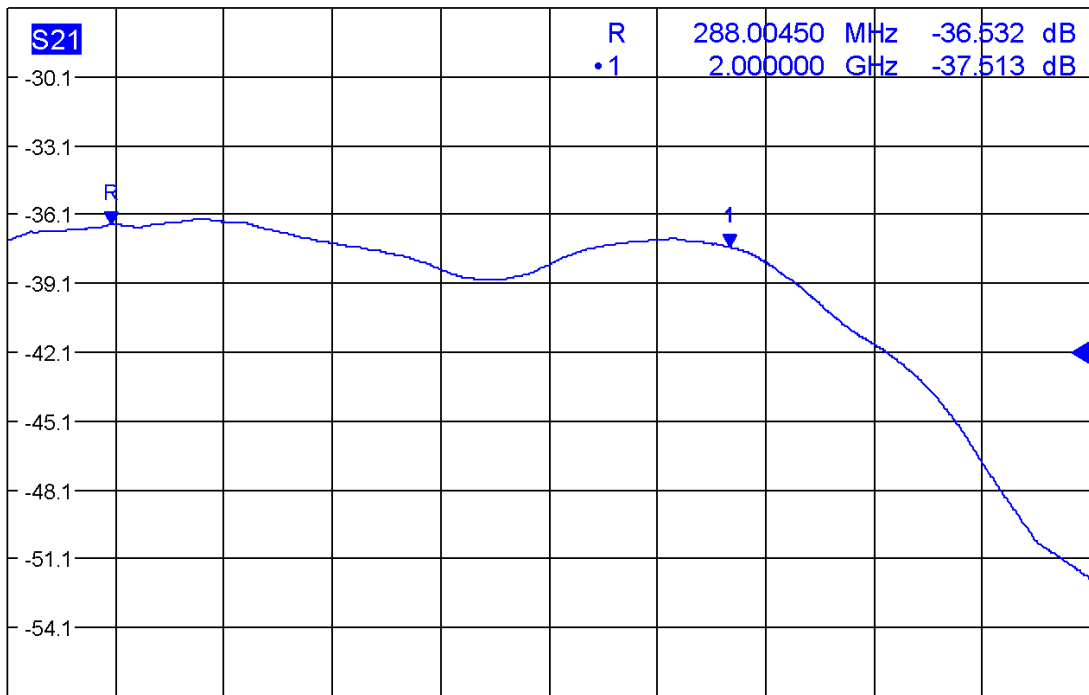
Typical impulse response for positive and negative input



Amplitude-frequency response



Trc1 S21 dB Mag 3 dB / Ref -42.1 dB Smo 1



Ch1 Start 9 kHz Pwr -10 dBm Stop 3 GHz

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