

Balanced Photoreceiver

Model: OPR-BD1G-L

Features

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

Applications

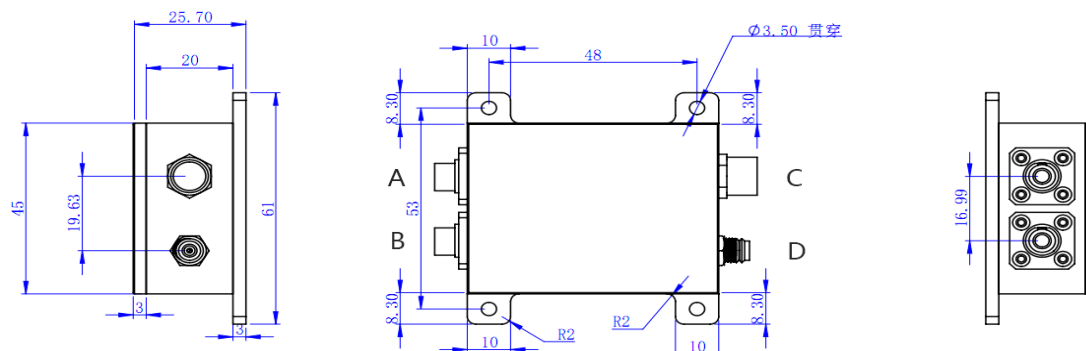
- Spectroscopy
- Laser wind measurement
- Optical Coherence Tomography OCT
- Optical Delay Measurements
- THz Detection



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

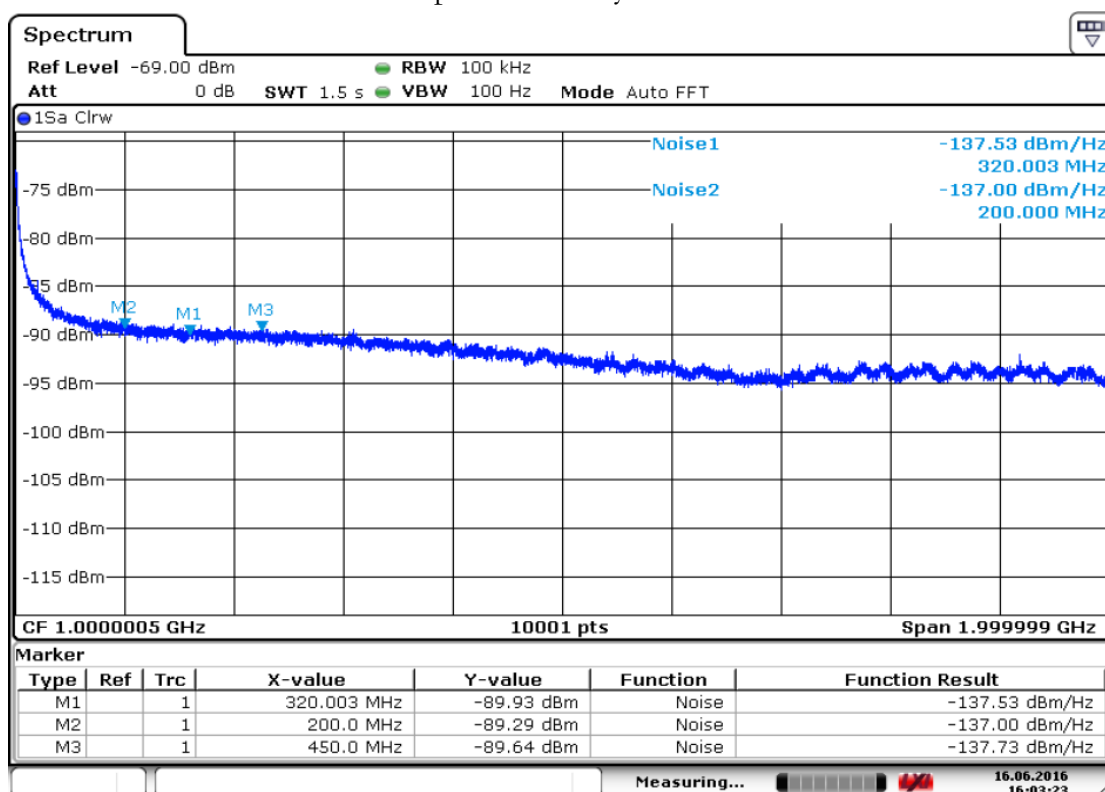
Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Spectral response range		900~1700			nm
Detector Diameter		75			μm
-3dB bandwidth	BW	1			Ghz
Detector responsiveness	R_V		1.0		A/W
Transimpedance gain	G	16			KV/A
Saturation input optical power	P_{in}		600		μW
Incident power	$P_{IN(MAX)}$		5	5	mW
Over output voltage noise	N		10		mV _{pp}
Common-mode Rejection Ratio	CMRR		25		dB
Output impedance	R_O		50		
Supply voltage	V_{CC}		± 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)



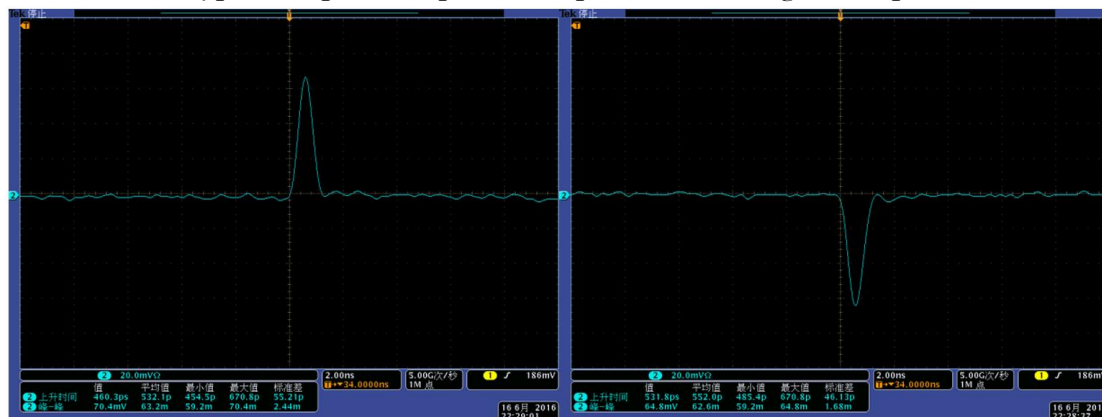
A, B are optical input interfaces (FC), C is power input interfaces (M8), and D is signal output interfaces (SMA).

Noise spectral density distribution



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Typical impulse response for positive and negative input

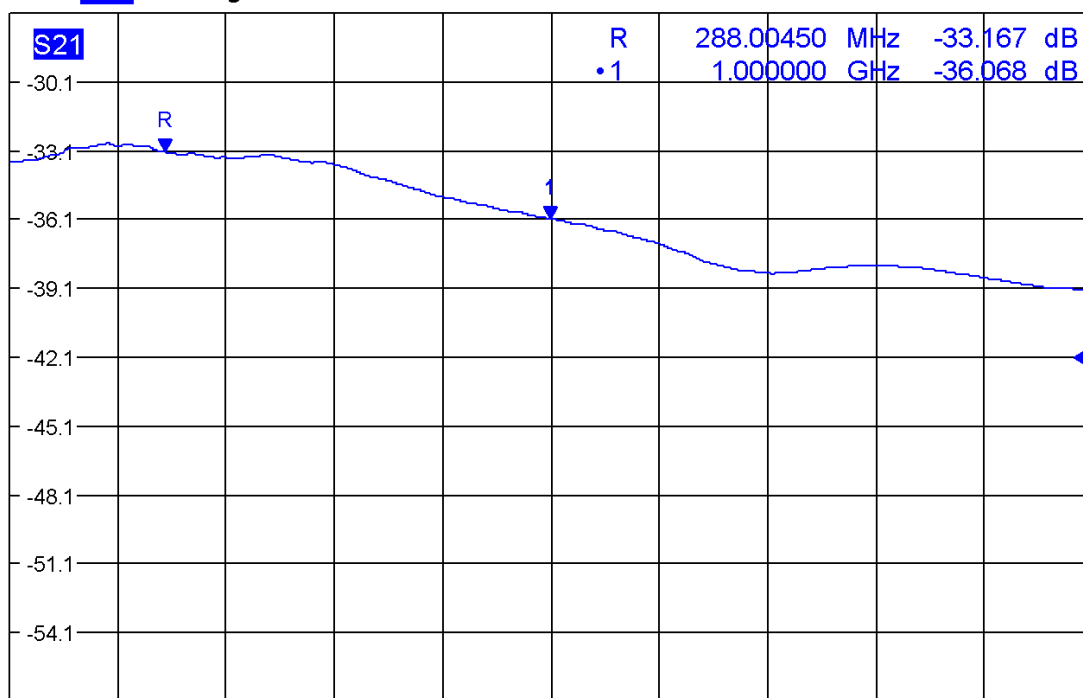


Amplitude-frequency response



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

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Ch1 Center 1.0000045 GHz

Pwr -10 dBm

Span 1.999991 GHz

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