Balanced Photoreceiver

Model: OPR-BD300M-L

Features

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

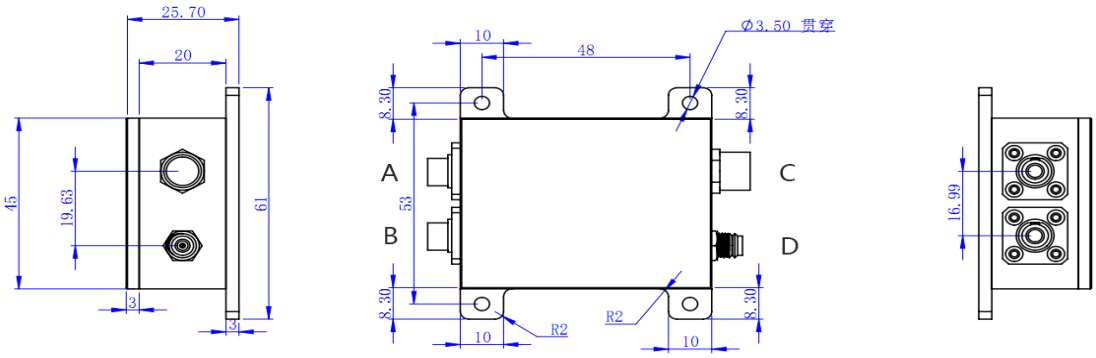
Applications

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

Electrical and optical characteristics(T=23℃ ±5℃, Humidity=35%±15%)

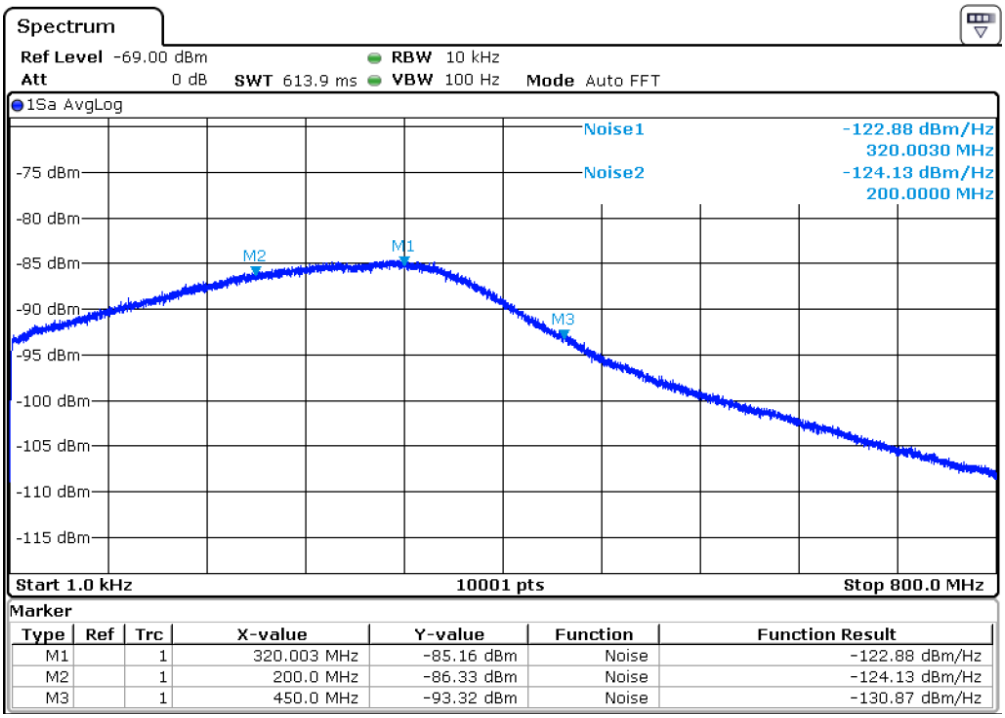
Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Spectral response range		900~1700			nm
Detector Diameter		75			μm
-3dB bandwidth	BW	300			Mhz
Detector responsiveness	R_V		1.0		A/W
Transimpedance gain	G	18			KV/A
Saturation input optical power	P_{in}		200		μW
Incident power	$P_{IN(MAX)}$		5	5	mW
Over output voltage noise	N		22.5		mVpp
Common-mode Rejection Ratio	CMRR		25		dB
Output impedance	R_O		50		
Supply voltage	V_{CC}		±5 ±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)

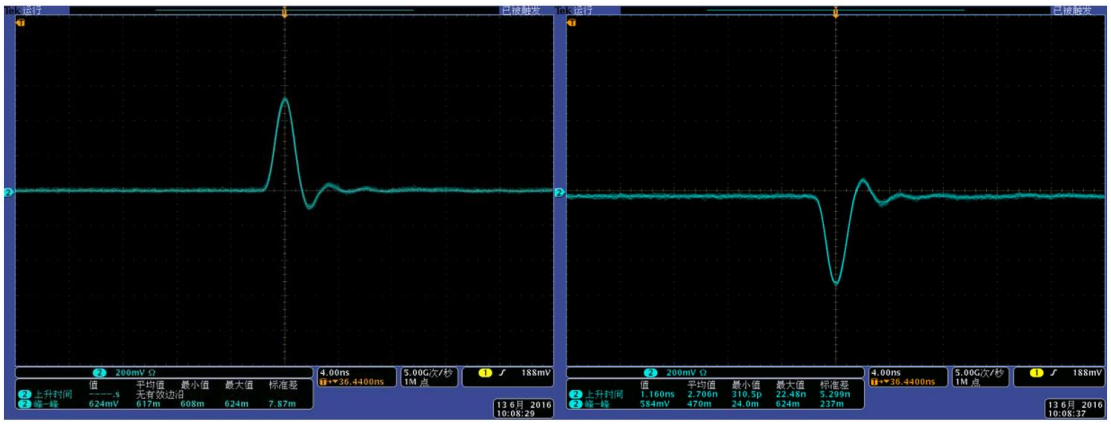


A, B are optical input interfaces (FC), C is power input interfaces (M8), and D is signal output interfaces (SMA).

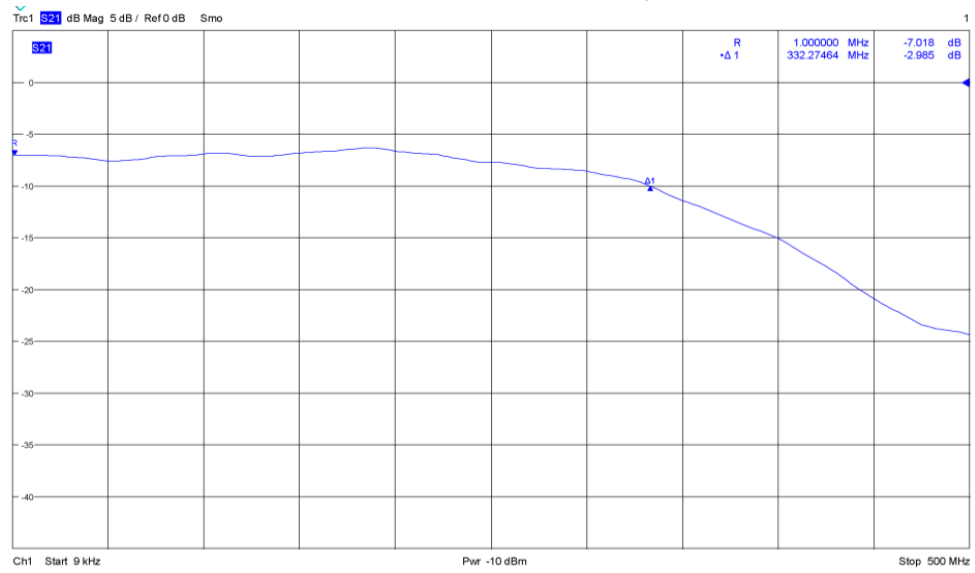
Noise spectral density distribution



Typical impulse response for positive and negative input



Frequency Response (inverting input)



Frequency Response (noninverting input)