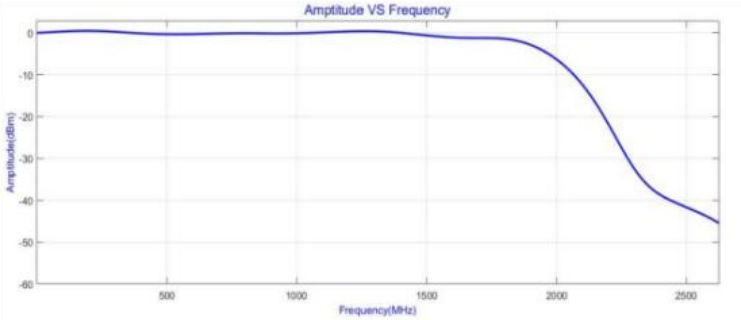
1300±150nm OCT photonic balanced detector



Detector frequency response curve

Product Description

2GHz Low Noise OCT Balance Photodetector

Part Number

SBD-2G-A

Product features

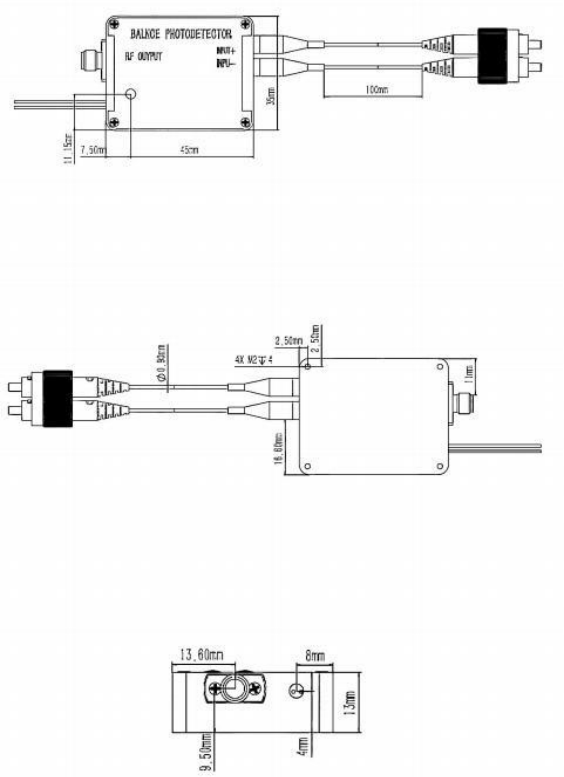
Low noise、 High bandwidth、 High gain、 Compact structure

Application area

Distributed fiber optic sensing (ψ-OTDR/ C-OTDR, DAS/DVS, BOTDA/ BOTDR)、 Laser wind measurement radar、 Optical coherence tomography、 Spectral measurement / ns-level optical pulse detectiont

Parameters

Dimensional Drawing



Parameters

PN#	SBD-2G-A	Unit
Detector type	InGaAs	
Wavelength	1300±150	nm
Bandwidth	2G	Hz
Detector responsivity	0.91@ 1300nm	A/W
Transimpedance gain	15K	V/A
Saturation input optical power	280	uW
NEP (Noise Equivalent Power)	9（ Typical）	pW/Sqrt(Hz)
Output impedance	50	Ω
Common mode rejection ratio	>30	dB
Output coupling method	AC	
Supply voltage	12	V
Supply current	0.3 (max)	A
Optical input	FC/APC	
RF output	SMA	
Dimensions	45*35* 11.5	mm

Instructions for Use

1.The module's supply voltage is 12V, with a maximum supply current of 0.3A.
2.Input+ and Input- are the optical input interfaces; RF is the RF output interface.
3.Before connecting to the input end, ensure the end face is clean to prevent contamination from affecting measurement results.

Test result