

DAS PIN+EDFA Detector

1. Product Description

This PIN+EDFA module is designed for use in distributed fiber optic acoustic sensing systems (DAS).

The DAS photodetector module integrates Beogold's own EDFA amplification technology with a unique signal noise processing circuit, combining multi-level interconnect amplification and noise suppression technology to improve signal-to-noise ratio and obtain high-quality output signals to subsequent data acquisition card.

The detector module adopts DC+5V single power supply and it is highly integrated for convenient use. Beogold offers a wide range of DAS detector module for diverse applications.

2. Feature

High response speed

Low noise output

working temperature: -10~60°C

Two-channel output

High stability and reliability

3. Applications

DAS fiber sensing

Optic Fiber communication

Lab research

Passive components measurement and production



4. Optical Specification

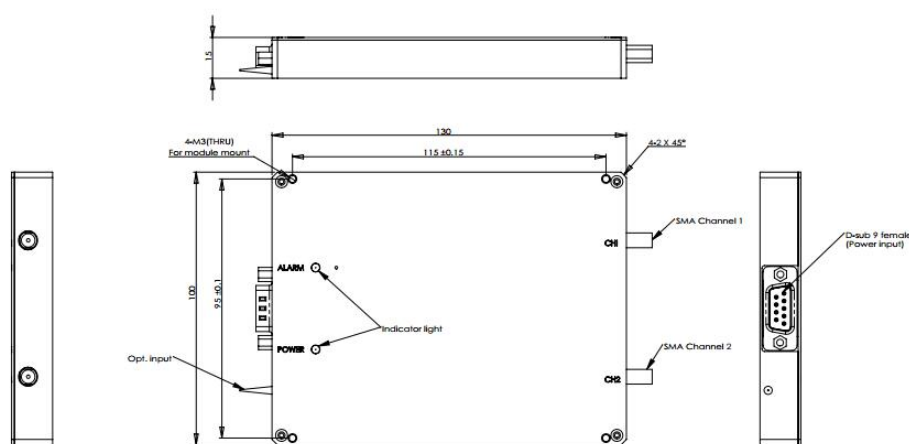
Parameter	Unit	Minimum	Typical	Maximum
Pulsed EDFA				
Operating Wavelength	nm	-	1550.12	-
Input Peak Power	dBm	-	-	-33
Input Average Power	dBm	-45	-40	-
Output Peak Power	dBm	-	23	43
Output Average Power	dBm	-	-	0
Noise Figure	dB	-	<5.5	-
PDG	dB	-	-	0.5
PMD	ps	-	-	0.5
PIN				
Output Voltage	V	-	-	1.5
Responsivity	V/A	-	-	4x10 ⁴
Dark Current	nA	-	0.1	1
Frequency Range	MHz	-	200	-
Overall				
Operating Temperature	°C	-10	25	60
Storage Temperature	°C	-40	-	80



Humidity	%	0	-	95
Power Supply	-	DV +5V GND		
Power Consumption	W	-	-	15
Fiber Connector	-	SMF 0.9mm Loose Tube, FC/APC		

5. Mechanical Structure

Structure Type	Parameter	Specifications	Unit	Remarks
Module	Dimension	Square 130*100*15	mm	Optional
	Electric Interface	DC +5V/GND		Typical
	Fiber Connector	FC/APC		
	Communication Interface	RS-232		Optional



6. Electrical Specifications

Structure Type	Parameter	Specifications	Unit	Remarks
Module	Power Supply	DC +5V/GND		
	Power Consumption	<10	W	At room temperature

7. Communication Mode

Structure Type	Parameter	Specifications	Remarks
Module	Communication Interface	DB-25Pin	Optional
	Communication Protocol	RS232	
	Communication User Interface	Read and set EDFA parameters	

8. Ordering Information

