



High Power EDFA

1. Product Description

Beogold's high-power EDFA offers an output optical power of up to 27dBm and is widely used in optical fiber sensing and communications. It consists of a 980 nm or 1480 nm pump laser to provide energy and operates in AGC, ACC or APC mode. It provides high output power, a wide spectral range, and a variable gain range >20dB. It can work across C-band.

Using DC+5V/GND as power supply, user-friendly RS232 serial port as communications interface for easy internal configuration. Beogold's high power EDFA enables real-time parameter monitoring, and remote management and control of the line.

2. Features

- Low noise figure
- High output power up to 27 dBm
- Flexible control mode
- High stability and high reliability
- Operating temperature: -20~60°C
- Customizable optical output power and configuration



3. Applications

- BOTDR
- OTDR system
- LIDAR
- Nonlinear Optics researches
- Fiber optic sensing
- Air monitoring

4. Optical Specifications

Parameter	Unit	Minimum	Typical	Maximum
Operating Wavelength	nm	1528	1550	1560
Input Power	dBm	-	0	-
Saturation Output Power @Pin=0 dBm	dBm	-	-	27
Noise Figure @Pin=0 dBm	dB	-	-	5.5
Input / Output Isolation	dB	40	-	-
Tunable Output Power	Yes			
Fiber Type (Single Mode)	SMF 9/125um NA=0.13			
Fiber Length	Custom design			
Fiber Connector	FC/APC or custom design			
Operating Temperature Range	°C	-20	-	+60
Storage Temperature Range	°C	-40	-	+85
Humidity	%	5	-	90
(1) Test result at single temperature, single channel, 1550nm power input.				
(2) Test result at single temperature for a period of 8 hours.				
(3) No condensing.				



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5. Mechanical Structure

Structure Type	Parameter	Specification	Unit	Remarks
Module	Dimensions	238x120x15	mm	
	Power Interface	DC +5V/GND		Typical
	Pigtail Fiber	SM		Can be customized
	Communication Interface	RS232 serial port		

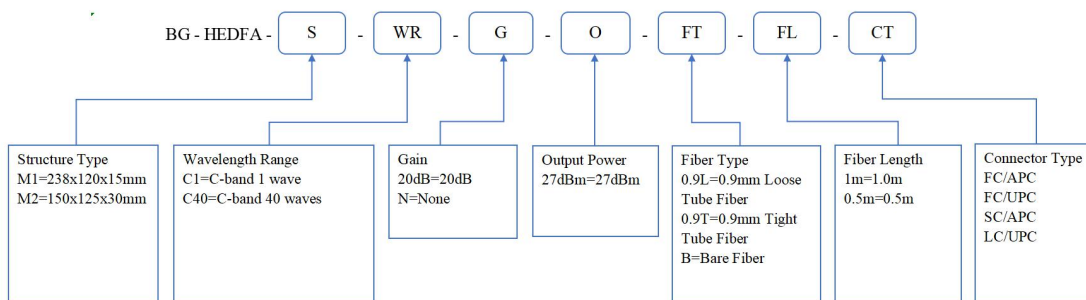
6. Electrical Specifications

Structure Type	Parameter	Specification	Unit	Remarks
Module	Power Supply	DC +5V/GND		
	Power Consumption	<30	W	At room temperature

7. Communication Type

Structure Type	Parameter	Specification
Module	Communication Interface	26-pin serial port
	Communication Protocol	RS232
	Communication User Interface	Read and set output power

8. Ordering Information



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