C- band Pulsed EDFA

1. Product Description

Beogold's high-speed pulsed erbium-doped fiber amplifier is widely used for high-speed optical fiber communications, all-fiber sensing applications.

The pulsed EDFA module has built-in drive circuit and logic control circuit to monitor key information such as pump laser temperature, module temperature and signal gain in real time. The module is configured to work at automatic current control (ACC) mode. All module state parameters and configuration information can be flexibly adjusted and monitored by upper computer software.

2. Features

High output peak power
High reliability
Low noise figure
Low pulse signal deformation
Flexible control mode
Excellent thermal adaptability

3. Applications

BOTDR
Space optic communication
Laser ranging
Non-linear optical research
Distributed fiber optic sensing

4. Optical Specifications

Parameter	Unit	Minimum	Typical	Maximum
Wavelength Range	nm	1528	-	1563
Input Peak Power	dBm	-20	1	10
Output Peak Power	W	-	-	20
Pulse Width	ns	10	100	200
Repetitive Frequency	KHz	-	2	-
Polarization Dependent Gain	dB	-	-	0.5
Polarization Mode Dispersion	ps	-	-	0.5
Noise Figure	dB	-	5.5	-
Input / Output Isolation	dB	40	-	-
Operating Temperature Range	℃	-20	-	+60
Storage Temperature Range	℃	-40	-	85
Humidity	%	5	-	90
Power Supply	DC+5V GND			
Fiber Connector	FC/APC or custom design			
Fiber Type	SMF28			

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Notes: For specific peak power, pulse width and repetition frequency, please contact our technicians.

5. Mechanical Structure

Structure Type	Parameter	Specification	Unit	Remarks
Module	Dimensions	90x70x15	mm	Can be customized
	Power Interface	DC+5V/GND		Typical
	Pigtail Fiber	SM		
	Communication Interface	RS232		Can be customized
Table	Dimensions	260.6x162.8x76	mm	
	Power Interface	N-L-C AC220V		
	Fiber Connector	FC/APC		Can be customized
	Communication Interface	Console or RJ45		
	Cooling Fan	1	PCS	

6. Electrical Specifications

Structure Type	Parameter	Specification	Unit	Remarks
Module	Power Supply	DC +5V/GND		
	Power Consumption	<15	W	At room temperature
Table	Power Supply	AC 220V		
	Power Consumption	50	W	At room temperature

7. Communication Type

Structure Type	Parameter	Specification	Remarks
Module	Communication Interface	26-Pin serial port	Can be customized
	Protocol	RS232	
	Communication User Interface	Read and set output power	
Benchtop	Communication Interface	Ethernet RJ45 or RS232	
	Protocol	SNMP or RS232	
	Communication User Interface	GUI	

8. Ordering Information