

PULSE EDFA

1. Product Description

High-speed pulse erbium-doped optical fiber amplifier series used in the fields of high-speed optical fiber communication and full optical fiber sensing. There are drive circuit and logic control circuit within the pulse erbium-doped optical fiber amplifier module, which can monitor the temperature of pump laser, the temperature of module and signal gain in time. The module configuration works in the constant drive current (ACC) working system. All the state parameters and configuration information can be adjusted and monitored flexibly by GUI.



2. Features

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

3. Applications

- BOTDR
- Optical space communication
- Laser ranging
- Non-linear optical research
- Distributed optical fiber sensing

4. Optical property indexes

Parameter	Unit	Minimum	Typical Value	Maximum
Wavelength Range	nm	1528	-	1563
Peak input power	dBm	-20	1	10
Peak output power	W	-	-	100
Pulse width	ns	10	100	200
Repetitive frequency	KHz	-	50	-

Polarization dependent gain	dB	-	-	0.5
Polarization mode dispersion	ps	-	-	0.5
Noise figure	dB	-	5.5	-
The isolation of input terminal	dB	40	-	-
The isolation of output terminal	dB	40	-	-
Operating temperature range	°C;	-10	-	+60
Storage temperature range	°C;	-40	-	85
Humidity	%	5	-	90
Power type	DC+5V GND			
Pigtail type	FC/APC adapter or customization			
Input/ Output fiber type	SMF28			
Remark: Specific peak power, pulse width and repetition frequency should be confirmed by technicians.				

5. Mechanical structure

Structure type	Parameter	Specification	Unit	Remark
Module	Structure size	90x70x15	mm	The size can be customized
	The type of power interface	DC+5V/GND Twisted-pair		Typical
	The type of output tail fiber	SM or PM		
	The type of Communication interface	No		Customized
	Structure size	260.6x162.8x76	mm	

Table model	The type of power interface	N-L-C AC220V power supply interface		
	Optical output interface	FC/APC type of connectors		Customized
	The type of Communication interface	Console connector or RJ45 internet access		
	Cooling fan	1	PCS	

6. Electrical Properties

Structure type	Parameter	Specification	Unit	Remark
Module	Supply voltage	DC +5V/GND		
	Power consumption	60;30	w	At normal temperature
Table model	Supply voltage	AC 220V		
	Power consumption	50	w	At normal temperature

7. Communication type

Structure type	Parameter	Specification	Remark
Module	Communication interface	26Pin 2.00mm Pitch	Customized
	Protocol	RS232	
	Communication user interface	Can read or set optical output power	
Table model	Communication interface	Ethernet or RS232	
	Protocol	SNMP or RS232	
	Communication user interface	GUI	