1550nm Erbium-Doped Fiber Amplifier



Product Overview

SOA1550 series EDFA, its core components adopt the world's top brand pump laser and erbium-doped fiber. The optimized optical design and production process ensure the best optical performance. The perfect electronic controlled modes of APC (automatic power control), ACC (automatic current control) and ATC (automatic temperature control) circuits are adopted to ensure high stability and reliability of the output power, at the same time, it also guarantees excellent optical path index.

MPU (microprocessor) with high stability and precision is adopted in the system. The optimized thermal structure design , good ventilation and heat dissipation design ensure the long life and high reliability of the device. Based on the powerful network management function of TCP / IP protocol, network monitoring and head-end management can be carried out for the status of multiple node equipment through RJ45 network management interface, supporting multiple power supply redundancy configurations , which improved the practicability and reliability of the device.

Features

1.It adopts the world's top brand pump laser and erbium-doped fiber.

2.Perfect APC, ACC and ATC optical circuit design ensures low noise, high output and high reliability of the device in the whole operating band (1530 ~ 1563nm).3.It has the function of automatic protection of low input or no input. When the input optical power is lower than the set value, the laser will automatically shut down to protect the safety of the laser.

4.Output adjustable , adjustment range: 0~-4dBm.5.Max output reaches 27dBm.

6.Fully automatic case temperature control and intelligent fans, the fans start to work when the case temperature reaches 35 $^{\circ}$ C.

7.Built-in dual power supply, automatically switched and hot plug in/out supported.
8.The operating parameters of the whole device are controlled by microprocessor, and the LCD status display on the front panel has many functions such as laser status monitoring, parameter display, fault alarm, network management, etc.; once the operating parameters of the laser deviate from the allowed range set by the software, the system will alarm promptly.

9. Standard RJ45 interface is provided, supporting SNMP and WEB remote network management.

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Category	Items	Unit	Min.	Тур.	Max.	Remarks
Optical Parameters	CATV Operating Wavelength	nm	1530		1565	
	Optical Input Range	dBm	-10		+10	
	Output Power	dBm	13		27	1dBm interval
	Output Adjustment Range	dBm	-4		0	Adjustable, each step 0.1dB
	Output Power Stability	dBm			0.2	
	No. of COM Ports		1		4	Specified by User
	Noise Figure	dB			5.0	Pin: 0dBm
	PDL	dB			0.3	
	PDG	dB			0.3	
	PMD	ps			0.3	
	Remnant Pump Power	dBm			-30	
	Optical Return Loss	dB	50			
	Fiber Connector		SC/APC			FC/APC、LC/APC
General Parameters	Network Management Interface		SNMP,WEB supported			
	Power Supply	V	90		265	AC
		ľ	-72		-36	DC
	Power Consumption	W			15	、24dBm,dual power supply

Main Technical Index

	Operating Temp	°C	-5		+65	Fully automatic case temp control
	Storage Temp	°C	-40		+85	
	Operating Relative Humidity	%	5		95	
	Dimension	mm	370×483×44			D, W, H
	Weight	Kg	5.3			

Main Applications

- 1.CATV System
- 2.FTTH、FTTx PON、Triple-play
- 3. IP/QAM data business.
- 4. Network upgrading and capacity expansion based on existing optical fiber resource.