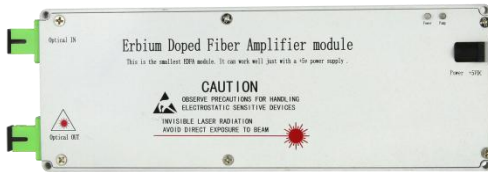


CATV

EA1500-I Series Independent Erbium Doped Fiber Amplifier



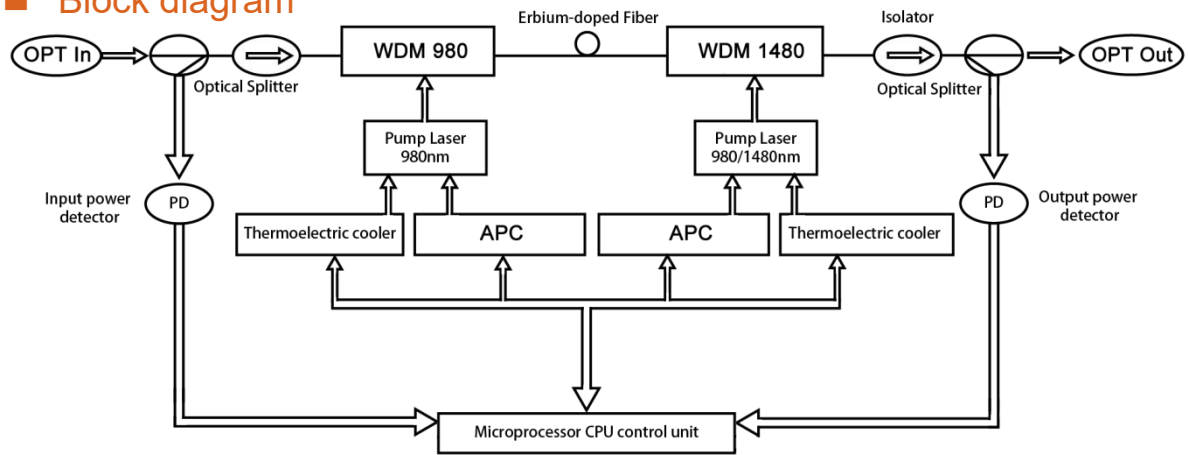
■ Performance characteristics

- ◆ Adopted internationally renowned brand low noise pump lasers, low distortion, wide band, high output optical power.
- ◆ Imported high-performance erbium-doped fiber, high energy conversion efficiency.
- ◆ Optical power receiving range -10dBm ~ +10dBm, optical power output 13~24dBm.
- ◆ 32-bit ARM control chip, real-time monitoring of the working status and operating parameters, light control output accuracy of ± 0.1 dBm.
- ◆ Working mode APC/ACC optional.
- ◆ Output power +0.2~-4dBm adjustable.
- ◆ All control circuits and devices use high-efficiency switching chips, and the overall power consumption is ≤ 10 W.
- ◆ Equipped with USB serial port tool, through the computer connection, can realize parameter on-site monitoring and reset.
- ◆ External 8V power supply, European standard, American standard optional.

■ Applications

This device is self-developed, independent Erbium-doped fiber amplifier. The product is compact and light weight, compact structure, easy installation and debugging, high cost performance, stable and reliable, is the ideal product to build secondary network and long-distance transmission in 1550nm optical signals

Block diagram



EA1500-I

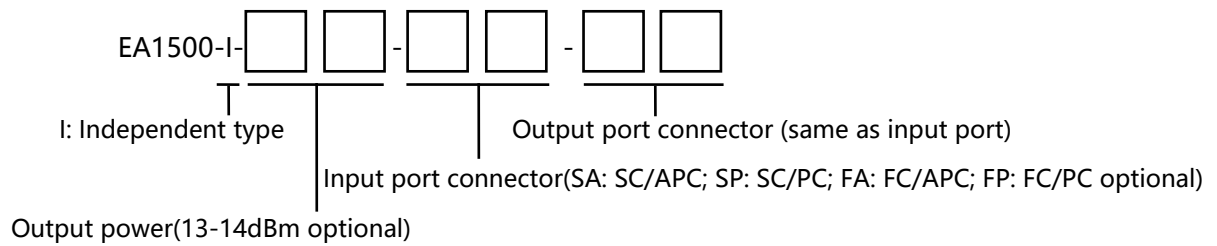
Technical parameters

Technical parameters		EA1500-I	Note
Wavelength		1535~1565 nm	
Input power range		-5dBm~ +10dBm	Normal input +3dBm
Output power range		(13~24) dBm	
Optical power stability		±0.1 dBm	
Noise figure		≤ 5.0 dB	@+0dBm input, λ =1550nm
Return loss	input	≥ 45 dB	
	output	≥ 45 dB	
Optical connector		SC/APC (standard) &FC/APC	Customized
C/N		≥ 50 dB	Test follow GT/T 184-2002
C/CTB		≥ 63 dB	
C/CSO		≥ 63 dB	
Supply voltage		DC 8V	External power supply
Consumption		≤ 10 W	
Working temperature range		-5 ~ +42 °C	
Maximum working relative humidity		Max95%, non-condensing	
Storage temperature range		-30 ~ +70 °C	
Maximum storage relative humidity		Max95%, non-condensing	
Size		82(L)*245(W)*19(H) mm	
Package size		340*134*50 mm	
Weight (including package)		0.44 kg	

■ Model guide

EA1500-I - Overall Power Value - Input Optical Connector Type - Output Optical Connector

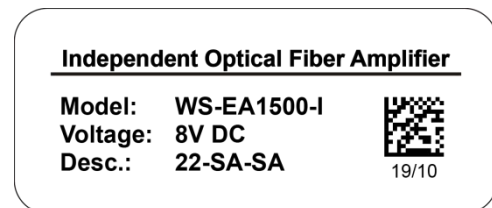
Type:



Example: EA1500-I-22-SA-SA

Explanation: This is optical fiber amplifier ,output power is 22dBm. Input connector is SC/APC ,output optical connector is SC/APC

■ Package & Label



Product label