

FWA-1550C Series C-Band Pre fiber amplifier



1. Product Description

FWA-1550C DWDM EDFA (Erbium Doped Fiber Amplifier) is a C-band pre-amplifier, which is mainly installed in front of the receiving device. Ultra-low input optical power and then amplifies the optical power to improve the sensitivity of transmitting and receiving equipment, so that to achieve the purpose of extending the signal for long-haul transmission.

FWA-1550C series gain fiber pre-amplifier uses advanced electronic control technology and complete software functions. By optimizing the optical path, it has a wide operating wavelength range, low noise, and excellent gain flatness characteristics.

【 Application 】 (1) Line amplify (2) Power amplify (3) Optical distribution system (4) SFP, SDH, ATM long-haul transmission (5) Video, Ethernet optical transmission system

2. Product feature

- ◆ With excellent optical performance, advanced electronic control technology and complete software functions, the system can obtain excellent CNR by optimizing the optical path and minimizing the NF of EDFA.
- ◆ Reliability: Adopt 19" 1U standard chassis, built-in high performance modular dual switching power supply, can work in AC 90~ 265V city network voltage. DC 48V power supply option is available as well. Dual hot and reserved power supply with Chassis automatic heat dissipation control.
- ◆ Intuitive: The pump laser is the most expensive component. The built-in microprocessor monitors the working status of the pump laser, and the working parameters are displayed on LCD.
- ◆ Network management Interface: Web transponder is line with the national standard and compatible with the SCTE HMS standard, achieving WEB monitoring function.

◆ The working wavelength is C band, which meets the communication technology requirements of DWDM systems.

3. Technical Parameters

Items	Unit	Performance Index
Optical Operating Wavelength	nm	1538~1565 (C-Band)
Input Optical Power Range	dBm	-30~-15
Nominal optical input power	dBm	-25
Output Power	dBm	-10~+12(Output power can be customized)
Noise Ratio	dB	3.8~5.5
Gain Flatness	dB	<±0.3
Optical Power Output Stability	dB	<±0.5
Polarization Sensitivity	dB	<0.2
Polarization Mode Dispersion	ps	<0.5
Optical connector (IN/OUT)		LC/UPC,SC/UPC,FC/UPC
Pump Operating Number	N	1~3
Power Supply	VAC	90~265 (Hot-pluggable dual power supply)
	VDC	-48 (Hot-pluggable dual power supply)
Working Temperature	°C	0~50
Case Size	mm	482.6×387×44

4. Product model series

FWA-1550C-10, Optical input power : -30 ~ -15dBm, Output power, ≥ -10dBm
 FWA-1550C-5, Optical input power : -30 ~ -15dBm, Output power, ≥ -5dBm
 FWA-1550C-0, Optical input power : -30 ~ -15dBm, Output power, ≥ 0dBm
 FWA-1550C+3, Optical input power : -30 ~ -15dBm, Output power, ≥ +3dBm
 FWA-1550C+5, Optical input power : -30 ~ -15dBm, Output power, ≥ +5dBm
 FWA-1550C+10, Optical input power : -30 ~ -15dBm, Output power, ≥ +10dBm
 FWA-1550C+12, Optical input power : -30 ~ -15dBm, Output power, ≥ +12dBm

