

FWA-1550L-Series, Line-Amplifier



1. Product Description

FWA-1550L series DWDM EDFA is a telecommunication long-distance transmission optical fiber amplifier. It is mainly installed in the middle section of long-haul transmission. It has ultra-low optical input power of -30dBm, and it is amplified to + 26dBm output to improve the sensitivity of the digital signal at the receiving end, so that to achieve the purpose of extending the signal for long-haul transmission.

FWA-1550L series DWDM EDFA is a telecommunication multi-channel C-band power fiber amplifier. The product uses advanced electronic control technology and complete software functions. It has a wide operating wavelength range, low noise, excellent gain flatness.

[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

- ◆ Through advanced electronic control technology, complete software functions and optimized the optical path, which allows EDFA has ultra-low optical input power of -30dBm and then amplified to + 26dBm output, so that to achieve the purpose of extending the signal for long-haul transmission.
- ◆ Top quality: The pre pump generally uses 980nm and the rear pump uses 1480nm. The software and optimized optical path to minimize the NF of EDFA, which can make the system achieve excellent CNR.
- ◆ Reliability: Adopt 19" 1U standard chassis, built-in high performance modular dual switching power supply, can work in AC 85 ~ 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	1528~1565
Input Optical Power Range	dBm	-30~-10
Nominal optical input power	dBm	-25
Saturated Output Power	dBm	13~26(output 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-1550L-13	output power, ≥13dBm (20mW)
FWA-1550L-14	output power, ≥14dBm (25mW)
FWA-1550L-15	output power, ≥15dBm (32mW)
FWA-1550L-16	output power, ≥16dBm (40mW)
FWA-1550L-17	output power, ≥17dBm (50mW)
FWA-1550L-18	output power, ≥18dBm (63mW)
FWA-1550L-19	output power, ≥19dBm (80mW)
FWA-1550L-20	output power, ≥20dBm (100mW)
FWA-1550L-21	output power, ≥21dBm (125mW)
FWA-1550L-22	output power, ≥22dBm (160mW)
FWA-1550L-23	output power, ≥23dBm (200mW)
FWA-1550L-24	output power, ≥24dBm (250mW)
FWA-1550L-25	output power, ≥25dBm (320mW)
FWA-1550L-26	output power, ≥26dBm (400mW)