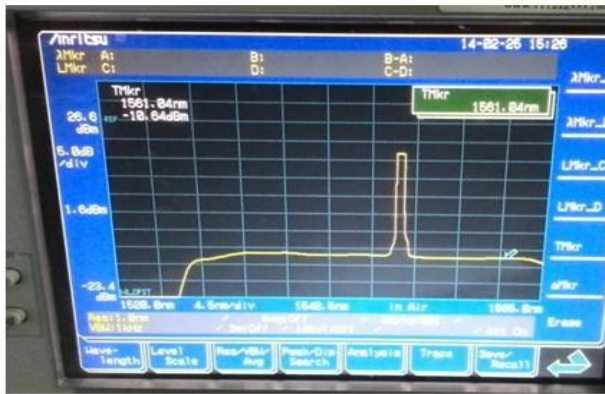


FWA-1550D Series, C-Band Booster Amplifier



1. Product Description

FWA-1550D series DWDM EDFA is a telecommunication multi-channel C-band power fiber amplifier, that is, a flat gain amplifier for each channel. The product uses advanced electronic control technology and complete software functions. It has a wide operating wavelength range, low noise, excellent gain flatness. The output power of the transmitting end of the digital signal is input to the FWA-1550D series power optical fiber amplifier after wavelength multiplexing in the DWDM system, which can increase the transmitted optical power and extend the long-haul transmission distance.

【 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

- ◆ 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.
- ◆ Adjustable output optical power: Output power can be lowered by 0 ~ -3dBm.

- ◆ 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
Input Optical Power Range	dBm	-10~+10
Nominal optical input power	dBm	+3
Noise Ratio	dB	3.8~5.5(+3 dBm,@1550nm)
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,SC/APC
Pump Operating Number	N	1~2
Saturated Output Power	dBm	13~23
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-1550D -13	output power,	≥13dBm (20mW)
FWA-1550D -14	output power,	≥14dBm (25mW)
FWA-1550D -15	output power,	≥15dBm (32mW)
FWA-1550D -16	output power,	≥16dBm (40mW)
FWA-1550D -17	output power,	≥17dBm (50mW)
FWA-1550D -18	output power,	≥18dBm (63mW)
FWA-1550D -19	output power,	≥19dBm (80mW)
FWA-1550D -20	output power,	≥20dBm (100mW)
FWA-1550D -21	output power,	≥21dBm (125mW)
FWA-1550D -22	output power,	≥22dBm (160mW)
FWA-1550D -23	output power,	≥23dBm (200mW)

