

ROA-1500

13~24dBm 1550nm Erbium-doped Optical Fiber Amplifier (EDFA)



Product Description

ROA-1500 series Erbium Doped Fiber Optical Amplifier adopted brand new imported JDSU laser, mainly used for low noise, long span and high speed optical fiber transmission system, the transmission of optical fiber as the gain medium to form distributed amplification system, effectively reduce the noise. Each Pump is independently adjustable output power field, more adaptable to a variety of different network application and amplification bandwidth.

Application

1. Amplification of 1550 nm optical signals on single mode fibers
2. Booster, in-line or distribution amplifier in Hybrid-Fiber-Coax (HFC) networks and FTTx PON networks.

Features

1. Erbium doped fiber amplifier technology.
2. Use JDSU pump laser.
3. Dual mechanic cooler and iron box design to protect laser for long time work.
4. +13 to +26dBm(400mW) optical output power.
5. 1/2/4/8 optical ports option (optical splitter build-in).
6. Constant output power control.
7. Supervision of the optical input level, optical output level and pump laser current.
8. High stability, VFD or LED displays working conditions, mature error alarm system.
9. RJ45 port for SNMP remote management, RS232 for local management.
10. Power supply 90~265VAC or -48VDC for choose.

Datasheet

Parameter	Unit	Index
Optical Parameter		
Operating Wavelength	nm	1530~1560
Input power	dBm	-3~+10
Output power	dBm	13~26
Output power stability	dB	<±0.1
Noise Figure	dB	<4.5
Input/Output Isolation	dB	30
Polarization Dependent Gain	dB	0.3
Polarization Dependent Loss	dB	0.3
Return Loss	dB	45
Fiber Connector	/	SC/APC, FC/APC
General Parameter		
SNMP Interface	/	RJ45
Communication Interface	/	RS232 or RS485
Power Consume	W	40
Working Voltage	V	220V(90~260VAC), DC-48V
Working Temp	°C	-5~+65
Storage Temp	°C	-40~+80
Humidity	%	5~95
Dimension	mm	483*381*44.5
Weight	kg	5

Products series

Model number	Output power Max (dBm) Pin=0dBm	Noise figure (dB) Pin=0dBm
R1513	≥13	4.0
R1514	≥14	4.1
R1515	≥15	4.2
R1516	≥16	4.3
R1517	≥17	4.5
R1518	≥18	4.8
R1519	≥19	5.0
R1520	≥20	5.3
R1521	≥21	5.5
R1522	≥22	5.8
R1523	≥23	6.0
R1524	≥24	6.3
R1525	≥25	6.5
R1526	≥26	6.8