

# ROA-2500LA

## 1550nm Line EDFA for CATV



### Product Description

ROA-2500LA series specially designed for single channel fiber optical transmission, normally installed in the transmission line to replace traditional O-E-O regenerators. This EDFA can compensate for loss of optical power then extend the signal transmission distance. The key components of the product are high reliability multimode Oclaro PUMP laser. A unique APC (Automatic Power Control) and ATC (Automatic Temperature Control) circuit insures the high stability and reliability output power, the unique optical circuit design ensures the excellent optical performance. The high stability and high precision MPU system to ensure the control, adjustment and display are intelligent and easy.

The optical circuit design especially for Analog CATV system as follows: (1) Low noise ensure better CNR for Analog system is sensitive for noise. (2) Good Spectral flatness in the operation signal to ensure better CSO. (3) Good Spectral flatness whole C- bands to fit the upgrade in future NGB.

The design of dual hot swap power makes the product as a really dual power product to reduce the MTBF. It also can back up the power system as well.

Employ intelligent temperature control system: (1)Adopt special temperature control circuit, heat radiating and power consumption can be reduced 30%; (2)The professional air flow design can also ensure the best temperature stability, at the same time powerful fan will start when the case temperature is over 45°C, meanwhile it will stop as the temperature is under 40°C. The technology makes sure the thermal stability of system and fan's long life.

### Application

1. Long distance backbone transmission
2. SDH/PDH transmission System

### Features

1. High gain with low noise figure.
2. Dual Power can plug high quality power: 220V Mixed interpolation with 48V.
3. High stability and reliability: MTBF>100000 hours.
4. Network management Agent use hot swap.
5. Perfect Network management interface: Ethernet,RS-485 and RS-232.
6. Support Telnet and standard SNMP Network management.
7. Intelligent Temperature Control System: Power consumption and hot radiation reduce 30% than common products.
8. Flexible mechanical and circuit structure (including pure module, Electric module, desktop and 1U structure).
9. OEM is available.

**Datasheet**

Parameter	Unit	Index
<b>Optical Parameter</b>		
Operating Wavelength	nm	1530~1565
Output power	dBm	15 (Typical)
Input power	dBm	-10~+10
Gain	dB	20/25/30
Noise Figure	dB	4.5
Return Loss	dB	-45
Polarization Dependent Gain	dB	0.3
<b>General Parameter</b>		
Operation Temperature	℃	-5~60
Storage Temperature	℃	-30~80
Humidity	%	10~90
Power Supply	VAC	110VAC/220VAC and-48VDC
Power Consumption	W	18
Dimension	mm	483×381×44.5
Weight	kg	6

**Product Series**

Model number	Related Gain
R2520LA	20
R2525LA	25
R2530LA	30