

DWDM EDFA



Product Features

- ❖ Low noise figure: typical 5.0dB
- ❖ High flatness: typical 1dB
- ❖ Cover Whole C-Band: Carried 40 or 80 chs
- ❖ Redundancy hot swap power module: 110/220VAC and 48VDC can plug Mix
- ❖ Perfect Network Interface: standard RJ45 and RS232 industrial standard interface.
- ❖ Provide upper computer software, query and set up optical amplifier equipment, use Ethernet network or serial port access.

Applications

- ❖ Pre-Amplifier (PA)
- ❖ Online-Amplifier (LA)
- ❖ Booster-Amplifier (BA)
- ❖ DWDM Optical System

Description

EDFA is the erbium-doped fiber amplification board. Its main function is to compensate the power of the signal optical in the transmission line, and it can amplify the optical signals of up to 48 channels with 100 GHz' s interval) or 96 channels with 50 GHz' s interval) at C band at the same time. It has characters of flat gain, locked gain, low noise index, etc. It' s an indispensable and important component for DWDM system, future high speed system and all-optical network long-distance transmission.

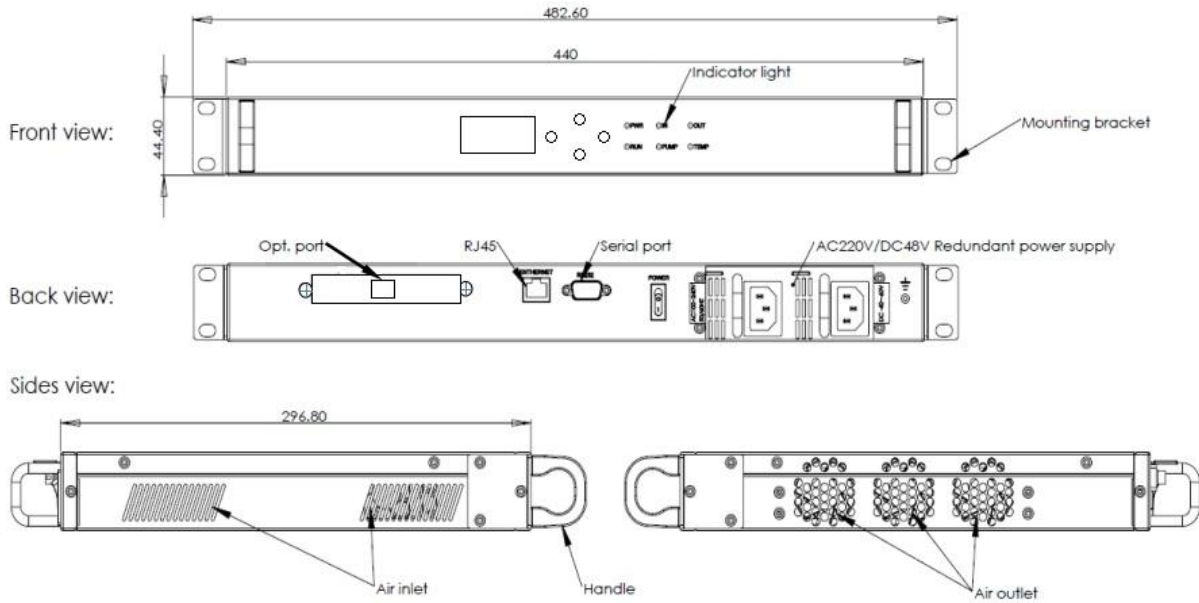
Product Specification

Parameter	Min	Typical	Max	Unit
P/N	BA15-T20-1U			
Product Type	Power Amplifier (BA)			
Operating Wavelength	1529	1550	1564	nm
Input Power	-15		5	dBm
Gain		15		dB
Output Power	-5		20	dBm
Gain Flatness		0.6	1.5	dB
Noise Figure		6.0		dB
Input/Output Isolation	30			dB
Output Pump Leakage			-30	dBm
Input/Output Return Loss	45			dB
Polarization Dependent Loss			0.5	dB
Polarization Mode Dispersion			0.5	ps
Operating Temperature	-5		55	°C
Humidity	5		95	%
Storage Temperature	-40		85	°C
Power Consumption			30	W
Power	-48V DC or 220V AC			V
Interface	LC/UPC or others			
Dimension	(W x L x H) 482.6x245x43.6			mm

Parameter	Min	Typical	Max	Unit
P/N	LA25-T16-1U			
Product Type	Line Amplifier (LA)			
Operating Wavelength	1529	1550	1564	nm
Input Power	-25		-7	dBm
Gain		25		dB
Output Power			16	dBm
Gain Flatness		0.6	1.5	dB
Input/Output Isolation	30			dB
Output Pump Leakage			-30	dBm
Input/Output Return Loss	45			dB
Polarization Dependent Loss			0.5	dB
Polarization Mode Dispersion			0.5	ps
Noise Figure		5.0		dB
Operating Temperature	-5		55	°C
Humidity	5		95	%
Storage Temperature	-40		85	°C
Power Consumption			30	W
Power	-48V DC & 220V AC			V
Interface	LC/UPC or others			
Dimension	(W x L x H) 482.6x245x43.6			mm

Parameter	Min	Typical	Max	Unit
P/N	PA25-T16-1U			
Product Type	Pre-Amplifier (PA)			
Operating Wavelength	1529	1550	1564	nm
Input Power	-30		-7	dBm
Gain		25		dB
Output Power			16	dBm
Input Optical Power Threshold	-30		-40	dBm
Noise Figure		5.0		dB
Gain Flatness		0.6	1.5	dB
Input/Output Isolation	30			dB
Output Pump Leakage			-30	dBm
Input/Output Return Loss	45			dB
Polarization Dependent Loss			0.5	dB
Polarization Mode Dispersion			0.5	ps
Operating Temperature	-5		55	°C
Humidity	5		95	%
Storage Temperature	-40		85	°C
Power Consumption			30	W
Power	-48V DC & 220V AC			V
Interface	LC/UPC or others			
Dimension	(W x L x H) 482.6x245x43.6			mm

Mechanical Structure



Ordering Information

Part Number	Product Description
BA15-T20-1U	DWDM EDFA, Booster Amplifier, 40/80 Channels C-Band, 15dBm Gain, +20dBm Maximal Output Power, +5dBm Saturated Optical Power
LA25-T16-1U	DWDM EDFA, Line Amplifier, 40/80 Channels C-Band, 16dBm Gain, +25dBm Maximal Output Power, -9dBm Saturated Optical Power
PA25-T16-1U	DWDM EDFA, Pre-Amplifier, 40/80 Channels C-Band, 16dBm Gain, +25dBm Maximal Output Power, -9dBm Saturated Optical Power