

DWDM EDFA Module



Overview:

LightComm DWDM EDFA module integrates electric drive, temperature control, remote control, and alarm circuits all together in a small package. The EDFA has input and output power monitors, amplifier working condition monitor. It can be set at three different working modes: constant gain, constant output power or constant pump power. The EDFA has assembled up to three pump lasers, which increases the output power and achieve the pump failure protection. The EDFA is designed as C-band (1528 to 1603 nm) or L-band (1570 to 1604 nm) to be used in DWDM communication systems.

Features:

- * High reliability
- * Flat and broadband gain
- * Pump failure protection
- * Automatic gain and output power control
- * RS232 remote control connector
- * Customer friendly software
- * Single 5 volt power supply
- * Compact package

Applications:

- * DWDM communication system power amplifier, in line amplifier and pre-amplifier(C-band or L-band)

Specifications:

Parameter	C - Band	L - Band
Operating wavelength(nm)	1528 - 1563	1570 - 1604
Nominal gain(dB)	18 - 30	
Max. output power(dBm)	13 - 23	
Gain flatness(dB)	1.0(peak to peak)	
Noise Figure (dB)	5.0	6.0
Operating temperature(°C)	- 5 - 65	
Stock temperature(°C)	- 25 - 75	
Dimensions(mm)	150 * 125 * 20	

Pin description:

Pin number	Description
1,2,3,4,12,24	+5.0V
13,14,15,16,17,25	GND
5	Output power monitor
6	Input power monitor
7	EDFA temperature alarm
8	output power alarm
9	Pump laser alarm
10	Pump temperature alarm
11,24	NC
18	RS 232 out (TTL level)
19	Input power alarm
20	Tune lower output power
21	Pump laser switch
22	RS 232 in (TTL level)

Ordering Information:

EDFA--X--XX--XX--XX--XX--XX/XXX

| | | | | ↳Connector:FC/UPC, FC/APC ect.

| | | | | ↳Pigtail fiber:1-900um, 2-3mm

| | | ↳Rating output power(dB):13~25

| | ↳Application;B=Power amplifier, L=inline amplifier,P-Pre-Amplifier

↳ Package: SO-1U Rack ,EM-Photoelectric module,OM-only Optical module

↳Type: DC-DWDM C Band, DL-DWDM L Band, CA-CATV