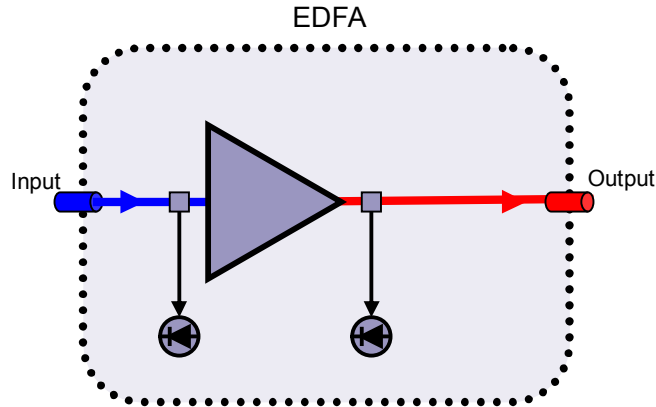


SNR-EDFA-DL

Full c-band EDFA +17dBm in-line

1 DESCRIPTION

1.1 Product Function



2 OPTIC AND/OR ELECTRIC SPECIFICATION

2.1 SNR-EDFA-DL

NO.	PARAMETER	SPECIFICATION			UNITS	NOTE
		MIN.	TYP.	MAX.		
2.1.1	Operation Wavelength Range	1528.5		1562	nm	C-band
2.1.2	Working mode	AGC & APC				
2.1.3	Input Power	-33		-9	dBm	
2.1.4	Gain	19	25	30	dB	Signal power AGC mode is in case only for 25dB gain, other gain is working in total power (include ASE) AGC mode. step 0.5dB;
2.1.5	Maximum output power	0		17	dBm	
2.1.6	Gain Flatness			1	dB	gain@25B,25°C
2.1.7	Noise Figure		5	5.5	dB	
2.1.8	Pump power leakage@ input			-30	dBm	
2.1.9	Pump power leakage@ output			-30	dBm	
2.1.10	Return loss @ input	40			dB	Pump off
2.1.11	Return loss @ output	40			dB	Pump off
2.1.12	PDG			0.3	dB	
2.1.13	PMD			0.5	dB	
2.1.14	Power supply voltage		220@50Hz		VAC	For BB: Dual AC
2.1.15	Power consumption			30	W	

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3 ABSOLUTE MAXIMUM RATINGS

NO	PARAMETER	SPECIFICATION	UNITS	NOTE
3.1	Operation Temperature	-5~55	°C	
3.2	Operation Humidity	5~90	%RH	
3.3	Storage Temperature	-25~70	°C	
3.4	Storage Humidity	5~95	%RH	

4 OPTIC PORTS DEFINITION

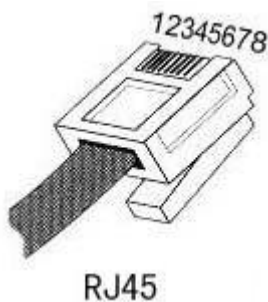
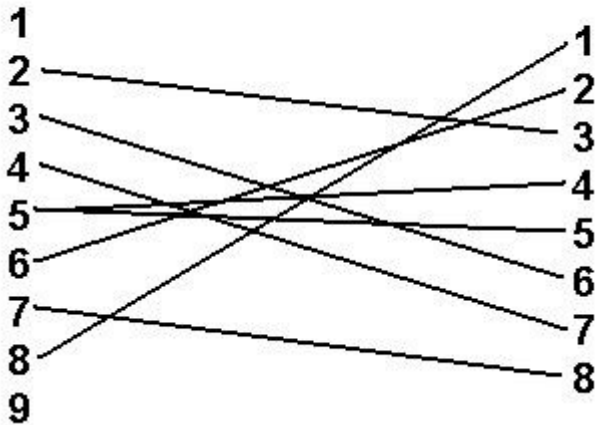
NO	CODE	PORT	DEFINITION OF PORT	CONNECTOR TYPE	NOTE
4.1	1	Input	Signal Input of EDFA	SC/UPC	
4.2	2	Output	Signal Output of EDFA	SC/UPC	
4.3	3	Output Monitor	Tap of Signal Output of EDFA	SC/UPC	

5 ELECTRIC PORTS DEFINITION

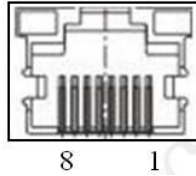
5.1 RS 232 Port

DB9

RJ45



5.2 Ethernet port

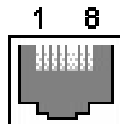


Pin	Name
1	TX+
2	TX-
3	RX+
4	Not connected
5	Not connected
6	RX-
7	Not connected
8	Not connected

5.3 Monitor

EDFA can export 4 alarm signal to the system via a standard RJ45 interface. These alarm signals are Input Power Alarm, Output Power Alarm, Pump status Alarm and Module Temperature Alarm and. When give an alarm, the corresponding TTL level will be set to low.

Pin Assignment (RJ45)



Monitor

Pin	Signal Name
1	Loss of Input Power
2	Loss of Output Power
3	Pump Laser Failure
4	Module Internal Temp. Alarm
5	Not connected
6	Not connected
7	Not connected
8	Ground

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6 MECHANICAL DRAWINGS

