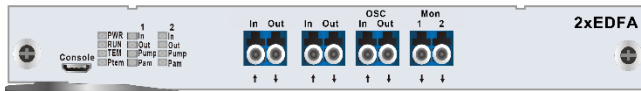




F520 EDFA (Erbium-Doped Fiber Amplifier) Series

Two EDFA Module Card

Part Number: F520-2DxxxxGxxxx-x (or Customized PN)



2xEDFA Module Card

Overview

The F520 series of C-Band EDFA Optical Amplifiers is part of the F520 optical multi-service transmission platform solution. Many model options serve all the traditional amplifier applications in an extended optical link: booster, in-line, and pre-amplifier. The Two EDFA module Card integrates two independent EDFA module on the same one line card to realize two separated amplifying task and save the chassis slot space.

Applications

- Metro DWDM distance extension
- Single wavelength distance extension
- CATV network system
- Long-Haul transmission system

Features

- Low noise figure : typical 5dB
- Gain Flattening Filters (GFF) assure flat Gain (<1dB variance) over the entire amplified band
- Multiple operating modes : AGC, APC, ACC
- High performance transient response control to ensure Power, Gain stable without affecting existing signal
- Support customized saturated Output Power range 13 ~ 24dBm
- Support customized Gain variety range 8 ~ 40dB
- Support Red / Blue port for single-fiber DWDM transmission system
- Optional OSC management channel for remote management
- MON own monitoring port, on-line monitoring optical power and OSNR
- Support SNMP, Web, Console management
- Support 4, 8, 20 slot chassis for different capacity requirement



Specification

Parameter		Min	Typ	Max	Unit
Operating Wavelength	Standard	1528		1565	nm
	Extended	1528		1567	
Output Power				+22	dBm
Gain		8		35	dB
Gain Flatness			1.0	1.5	dB
Gain Adjustable Range	w/o VOA	± 3			dB
	with VOA	± 5			
Input Power	BA	-22		Max.Output -Gain	dBm
	PA/LA	-32		Max.Output -Gain	
Noise Figure			5.0	5.5	dB
Input Threshold		Input Power -1dB			dBm
Polarization Dependence Loss				0.3	dB
Polarization Dependence Gain				0.4	dB
Polarization Mode Dispersion				0.5	ps
Pump Power Leakage				-29	dBm
Return Loss				-45	dB
Power Consumption		≤15			W
Size	2xEDFA model	191(W) x 253(D) x 20(H)			mm
	4-slot chassis	482.5(W) x 350(D) x 44.5(H)			
	8-slot chassis	482.5(W) x 350(D) x 89(H)			
	20-slot chassis	482.5(W) x 350(D) x 222.5(H)			
Operating Temperature		-10~60			℃
Storage Temperature		-40~85			℃
Relative Humidity		5~95			RH%

Note1: The Insertion Loss values not including Connector Loss.

Note2: PDL was measured on average polarization over a ± 0.08 nm window around the ITU wavelength.



Ordering Information

F520-2D ☐ ☐ ☐ ☐ G ☐ ☐ ☐ ☐ - ☐

Amplifier Type

- B- Booster Amplifier
- L- In-Line Amplifier
- P- Pre-Amplifier

Wavelength Range

- A- Standard *default
- E- Extended

Max. Total Output Power

- 16- 16dBm 20- 20dBm
- 18- 18dBm xx- xxdBm

Power Gain

- 12- 12dB 30- 30dB
- 20- 20dB 35- 35dB
- 25- 25dB
- xx- xxdB

VOA Function

- V- with VOA
- Blank- without VOA

OSC Function

- S- with OSC
- Blank- without OSC

Bidi Function

- B- Pass 1528~1543nm (Ch45~Ch60)
Reflect 1547~1561nm (Ch21~Ch36)
- R- Pass 1547~1561nm (Ch21~Ch36)
Reflect 1528~1543nm (Ch45~Ch60)
- Blank- Not Bidi