

Erbium-Doped Fiber Amplifiers

EA4000

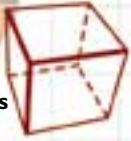
FIBERPRO's EA4000, optimized for R&D applications in laboratories and research institutions, provides easy-to-use manipulations and

versatile functions with display window for control and monitoring. FIBERPRO's customer-on-demand design and optimized performance based on world class design infra, save time for the customers to penetrate the optical communication market.



Features

- Saturation output power from 13 to 23 dBm
- Easy Monitoring with LCD Panel
 - Input/Output Monitoring
 - Temperature Monitoring
 - Pump LD Monitoring
 - Alarm Monitoring
- Controllable pump power
- Ultra Low Noise
- Standard RS-232C Interface
- Telcordia GR-1312-CORE Compliance
- Stable Gain Profile over gain bandwidth



Applications

Single Channel in C-Band

- Booster/Power Amplifier
- In-Line Amplifier
- Pre-Amplifier

Providing Versatile Power Adjustment

Application for Laboratory and Research Center

Optical Specification

Parameter \ Model		EA4000-13 Series			EA4000-15 Series			EA4000-17 Series		
		Min	Typ	Max	Min	Typ.	Max	Min	Typ.	Max
Wavelength (nm)		1530		1562	1530		1562	1530		1562
Input Range (dBm)	Booster	-8			-8			-8		
	In-Line	-20			-20			-20		
	PreAmp	-40			-40			-40		
Output (dBm) ¹⁾			13.0			15.0			17.0	
Noise Figure (dB) ¹⁾				5.0			5.0			5.0
PDG (dB)				0.5			0.5			0.5
PMD (ns)				0.5			0.5			0.5
Operating Temp. (°C)		0		65	0		65	0		65
Storage Temp.(°C)		-40		70	-40		70	-40		70

Parameter \ Model		EA4000-21 Series			EA4000-23 Series		
		Min	Typ.	Max	Min	Typ.	Max
Wavelength (nm)		1530		1562	1530		1562
Input Range (dbm)	Booster	-8			-8		
	In-Line	-20			-20		
	PreAmp	-40			-40		
Output (dBm) ¹⁾			21.0			23.0	
Noise Figure (dB) ¹⁾				5.0			5.0
PDG (dB)				0.5			0.5
PMD (ns)				0.5			0.5
Operating Temp. (°C)		0		65	0		65
Storage Temp.(°C)		-40		70	-40		70

¹⁾ Input Power at - 6 dBm

Electrical Characteristics

Parameter	Range	Unit
Power Supply Voltage	110 ~ 240 (50 ~ 60 Hz)	VAC
Electrical Power Consumption	30 (Maximum)	W

Alarm, Display, Control, Interface

Alarm	LD bias Alarm	Input Loss of Signal Alarm
	LD Temperature Alarm	Output Loss of Signal Alarm
	EDFA Temperature Alarm	
Display (Front Panel LCD)	Input/Output Power	dBm / mW
	Gain	ratio / dB
	Pump Power	mW
	Pump Current	mA
	LD Temperature	°C
	EDFA Temperature	°C
	LD Current Threshold and Alarm	mA
	Input Loss of Signal Threshold and Alarm	dBm
	Output Loss of Signal Threshold and Alarm	dBm
Control	Pump Power	mW
Electrical Interface	Rs-232C	
Optical Interface	SC/PC, FC/PC, FC/APC, SC/APC	

Ordering Code

EA4000-(1)-(2)

- output power → 13 dBm (13), 15 dBm (15),
17 dBm (17), 21 dBm (21), 23 dBm (23)
- connector type → SC/PC (S/P), FC/PC (F/P), FC/APC (F/A), SC/APC (S/A)