

C++ Variable Gain EDFA

Description

The C++ band EDFA is characterized by excellent optical properties and high reliability. Its flexible working mode and concise interface support super C-band amplification and adjustable gain.

Key Features

- Support to 120 signal channels
- High gain range and lower NF
- Fast transient control
- Support constant Gain/constant output Power/manual mode
- Customized

Applications

- Backbone network
- MAN, OTN
- DCI

Specifications

Optical Parameter	Unit	Value
Wavelength Range	nm	1524~1572.3
Max Output Power	dBm	24
Gain Range	dB	15~25
Gain Flatness	dB	1.5
Max NF@25dB Gain	dB	6
PDG	dB	0.3
PMD	ps	0.5
Electrical Parameters		
Operating Current	A	<4
Operating Voltage	V	5
Communication Interface		UART
Fiber Parameters		
Typ. Fiber Type		SMF28
Typ. Fiber Jumper Type		900um loose tube or tight buffer
Typ. Fiber Length	m	1
Fiber Connector	-	LC/APC
Environment Requirement		
Operating Case Temperature	°C	- 20 to + 65
Storage Case Temperature	°C	- 40 to + 85
Humidity	%	5 - 95
RoHS	-	Satisfy with RoHS 6
Dimensions		
Module Dimension L(mm) × W(mm) × H(mm)	mm	130x100x18 or customization

L++ Variable Gain EDFA

Description

The L++ band EDFA is characterized by excellent optical properties and high reliability. Its flexible working mode and concise interface support super L-band amplification and adjustable gain.

Key Features

- Support to 120 signal channels
- High gain range and lower NF
- Fast transient control
- Support constant Gain/constant output Power/manual mode
- Customized

Applications

- DCI
- Long haul
- Ultra-high speed telecommunications system

Specifications

Optical Parameter

	Unit	Value
Wavelength Range	nm	1575~1627
Max Output Power	dBm	23
Gain Range	dB	15~25
Gain Flatness	dB	1.5
Max NF@25dB Gain	dB	9.5
PDG	dB	0.3
PMD	ps	0.5

Electrical Parameters

Operating Current	A	<7
Operating Voltage	V	5
Communication Interface		UART

Fiber Parameters

Typ. Fiber Type		SMF28
Typ. Fiber Jumper Type		900um loose tube or tight buffer
Typ. Fiber Length	m	1
Fiber Connector	-	LC/APC

Environment Requirement

Operating Case Temperature	°C	- 20 to + 55
Storage Case Temperature	°C	- 40 to + 85
Humidity	%	5 - 95
RoHS	-	Satisfy with RoHS 6

Dimensions

Module Dimension L(mm) × W(mm) × H(mm)	mm	220x130x25 or customization
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C+L Variable Gain EDFA

Description

The C+L band EDFA is characterized by excellent optical properties and high reliability. Its flexible working mode and concise interface support super C+L-band amplification and adjustable gain.

Key Features

- Support to 96+96 signal channels
- High gain range and lower NF
- Fast transient control
- Support constant Gain/constant output Power/manual mode
- Customized

Applications

- Backbone network
- MAN, OTN
- DCI

Specifications

Optical Parameter	Unit	Value
Wavelength Range	nm	1528~1568&1570 ~1611
C-band Max Output Power	dBm	23
L-band Max Output Power	dBm	23
Gain Range	dB	15~25
Gain Flatness	dB	1.5
Max NF@25dB Gain	dB	C Band 5.5dB / L band 6.5dB
PDG	dB	0.3
PMD	ps	0.5
Electrical Parameters		
Operating Current	A	<8
Operating Voltage	V	5
Communication Interface		UART
Fiber Parameters		
Typ. Fiber Type		SMF28
Typ. Fiber Jumper Type		900um loose tube or tight buffer
Typ. Fiber Length	m	1
Fiber Connector	-	LC/APC
Environment Requirement		
Operating Case Temperature	°C	- 20 to + 55
Storage Case Temperature	°C	- 40 to + 85
Humidity	%	5 - 95
RoHS	-	Satisfy with RoHS 6
Dimensions		
Module Dimension L(mm) × W(mm) × H(mm)	mm	220x130x25 or customization

Single Channel Nano EDFA

Description

The Nano EDFA is built in an extremely small package with extremely low power consumption. It supports single-channel amplification and the maximum output power can reach 6 dBm.

Key Features

- Ultra Mini Size
- High gain and lower NF
- Support constant output Power/manual mode
- Customized

Applications

- High-speed transmission systems.
- DCI

Specifications

Optical Parameter	Unit	Value
Wavelength Range	nm	1528 ~ 1568
Max Output Power	dBm	6
Input Power Range	dBm	-20 ~ 0
Max NF@26dB Gain	dB	6.5
PDG	dB	0.3
PMD	ps	0.5
Electrical Parameters		
Operating Current	A	0.2
Operating Voltage	V	5
Communication Interface		UART
Fiber Parameters		
Typ. Fiber Type		SMF28
Typ. Fiber Length	m	1
Fiber Connector	-	LC/APC
Environment Requirement		
Operating Case Temperature	°C	- 20 to + 70
Storage Case Temperature	°C	- 40 to + 85
Humidity	%	5 - 95
RoHS	-	Satisfy with RoHS 6
Dimensions		
Module Dimension L(mm) × W(mm) × H(mm)	mm	40x24x6.5 or customization

2-Pump Raman Amplifier

Description

The 2-Pump Raman Amplifier is characterized by excellent optical properties and high reliability. Its flexible working mode and concise interface support adjustable gain&tilt and transient control.

Key Features

- Support C, L Band
- Lower NF
- Excellent gain flatness
- Pump power and input signal monitoring mode
- Support constant Gain/constant output Power/manual mode

Applications

- Long haul
- High speed transmission system

Specifications

Optical Parameter	Unit	Value
Wavelength Range	nm	C, L Band
Input Power	dBm	-40~0
On-Off Gain range	dB	10~17
Gain Flatness	dB	2
Effective NF	dB	<0
Fiber: SSMF/G.652, Leaf/G.655 etc	dB	0.3
PMD	ps	0.5
Electrical Parameters		
Operating Current	A	<8
Operating Voltage	V	5
Communication Interface		UART
Fiber Parameters		
Typ. Fiber Type		SMF28
Typ. Fiber Jumper Type		900um loose tube or tight buffer
Typ. Fiber Length	m	1
Fiber Connector	-	LC/APC
Environment Requirement		
Operating Case Temperature	°C	- 20 to + 65
Storage Case Temperature	°C	- 40 to + 85
Humidity	%	5 - 95
RoHS	-	Satisfy with RoHS 6
Dimensions		
Module Dimension L(mm) × W(mm) × H(mm)	mm	220x130x20 or customization

4-Pump Raman Amplifier

Description

The 4-Pump Raman Amplifier is characterized by excellent optical properties and high reliability. Its flexible working mode and concise interface support adjustable gain&tilt and transient control.

Key Features

- Support C, L, or C+L Band
- Lower NF
- Excellent gain flatness, Tilt control
- Pump power and input signal monitoring mode
- Support constant Gain/constant output Power/manual mode

Applications

- Long haul
- High speed transmission system

Specifications

Optical Parameter	Unit	Value
Wavelength Range	nm	Supper C-Band, Supper L- Band
Input Power	dBm	-40~0
On-Off Gain range	dB	10~20
Gain Flatness	dB	2
Effective NF	dB	<0
Fiber: SSMF/G.652, Leaf/G.655 etc	dB	0.3
PMD	ps	0.5
Electrical Parameters		
Operating Current	A	<12
Operating Voltage	V	5
Communication Interface		UART
Fiber Parameters		
Typ. Fiber Type		SMF28
Typ. Fiber Jumper Type		900um loose tube or tight buffer
Typ. Fiber Length	m	1
Fiber Connector	-	LC/APC
Environment Requirement		
Operating Case Temperature	°C	- 20 to + 65
Storage Case Temperature	°C	- 40 to + 85
Humidity	%	5 - 95
RoHS	-	Satisfy with RoHS 6
Dimensions		
Module Dimension L(mm) × W(mm) × H(mm)	mm	220x130x22 or customization

5W Variable Gain EDFA

Description

This product is a C band High Power Amplifier module which is used in low noise, long span or high-speed optical transmission system. The amplifier is characterized by excellent optical properties and high reliability.

Key Features

- Support to 96 signal channels
- Flat gain with low NF
- 5W Optical Output Power
- Support constant Gain/constant output Power/manual mode
- Customized

Applications

- DWDM and Long Haul Application
- Spatial Laser Communications

Specifications

Optical Parameter	Unit	Value
Wavelength Range	nm	1528.5 - 1567.5
Max Output Power	W	5
Gain Range	dB	35-43
Gain Flatness@25℃	dB	1.8
Max NF@43dB Gain	dB	5.5
PDG	dB	0.3
PMD	ps	0.5
Electrical Parameters		
Operating Current	A	<12
Operating Voltage	V	5
Communication Interface		UART
Fiber Parameters		
Typ. Fiber Type		SMF28
Typ. Fiber Jumper Type		Tight buffer
Typ. Fiber Length	m	1
Fiber Connector	-	E2000
Environment Requirement		
Operating Case Temperature	℃	- 5 to + 65
Storage Case Temperature	℃	- 40 to + 85
Humidity	%	5 - 95
RoHS	-	Satisfy with RoHS 6
Dimensions		
Module Dimension L(mm) × W(mm) × H(mm)	mm	220x170x38 or customization

10W Variable Gain EDFA

Description

This product is a C band High Power Amplifier module which is used in low noise, long span or high-speed optical transmission system. The amplifier is characterized by excellent optical properties and high reliability.

Key Features

- Support to 96 signal channels
- Flat gain with low NF
- 10W Optical Output Power
- Support constant Gain/constant output Power/manual mode
- Customized

Applications

- DWDM and Long Haul Application
- Spatial Laser Communications

Specifications

Optical Parameter	Unit	Value
Wavelength Range	nm	1528.5 - 1567.5
Max Output Power	W	10
Gain Range	dB	35-43
Gain Flatness@25℃	dB	1.8
Max NF@43dB Gain	dB	5.5
PDG	dB	0.3
PMD	ps	0.5

Electrical Parameters

Operating Current	A	<12
Operating Voltage	V	5
Communication Interface		UART

Fiber Parameters

Typ. Fiber Type		SMF28
Typ. Fiber Jumper Type		Tight buffer
Typ. Fiber Length	m	1
Fiber Connector	-	E2000

Environment Requirement

Operating Case Temperature	℃	- 5 to + 65
Storage Case Temperature	℃	- 40 to + 85
Humidity	%	5 - 95
RoHS	-	Satisfy with RoHS 6

Dimensions

Module Dimension L(mm) × W(mm) × H(mm)	mm	220x170x38 or customization
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