PM-EDFA-XX-C C Band (1545 – 1555 nm) +23/+26 dBm PM EDFA Module Specification

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CA Optronics Group INC.

www.caoptronicsgroup.com

Description

PM-EDFA-XX-C C band(1545 - 1555 nm) +23/+26 dBm PM optical amplifier is high stability output EDFA. The key components of the product are high reliability multi-mode pump laser. A unique APC (Automatic Power Control) and ATC (Automatic Temperature Control) circuit insures the high stability and reliability output power. The unique optical circuit design ensures the excellent optical performance. The high stability and high precision MPU system to ensure the control, adjustment and monitor are intelligent and easy.

Environmental Parameters

Operation Temperature:	-5 ℃ ~ + 60 ℃
Operating relative humidity:	10% ~ 85% RH
Storage Temperature:	-40 ℃ ~ +80 ℃
Storage relative humidity:	5% ~ 95% RH

Optical and Electrical Specification

Please find hereafter the optical and electrical specification of EDFA

Items	Description	PM-EDFA-23-C**			PM-EDFA-26-C**			Unit
		Min	TYP	MAX	Min	TYP	MAX	
1	**Optical Specification**							
1.1	Wavelength Range	1545 ~ 1555			1545 ~ 1555			nm
1.2	Input Power	3	-	50	3	-	50	mW
1.3	Output Power	22	23	24	25	26	27	dBm
1.4	Output Power Stability			+/-0.1			+/-0.1	dB
1.5	NF @0 dBm		5.5			5.5		dB
1.6	Work Mode	PM SC/APC			PM SC/APC			

**** If you are looking for +30 dBm or +33 dBm EDFA, please email us at jim_wang@caoptronicsgroup.com or call us at: :+1-510-366-7353**

Electrical Specification

Items	Description	Min	TYP	MAX	Unit	Remark
2	**Electrical Specification**					
2.1	Power Supply	4.5	5	5.5	VDC	
2.2	Power Consumption		5	10	W	

Optical Connector

No.	Parameters	Specifications
1	Input Connector	PM SC/APC
2	Output Connector	PM SC/APC

Optical Port Connector

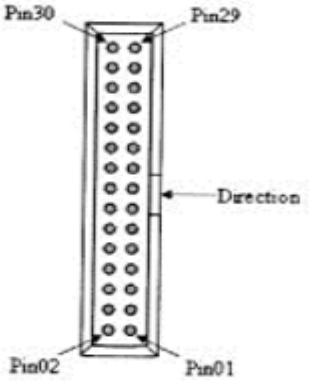
Electric Interface

2.0 mm Span, 15PIN x 2, Connector PIN Assignment

Table 4-2 PIN Assignment

PIN	Description	PIN	Description
1	VCC_+5V	2	VCC_+5V
3	VCC_+5V	4	VCC_+5V
5	GND	6	GND
7	NC	8	NC
9	GND	10	GND
11	TTL_TXD	12	NC
13	NC	14	TTL_RXD
15	NC	16	NC
17	NC	18	NC
19	NC	20	NC
21	NC	22	GND
23	NC	24	NC
25	GND	26	GND
27	VCC_+5V	28	VCC_+5V
29	VCC_+5V	30	VCC_+5V

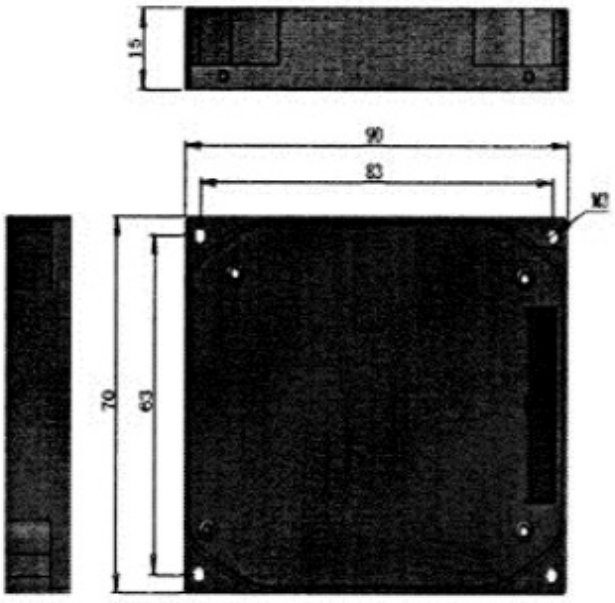
Cable PIN drawing:

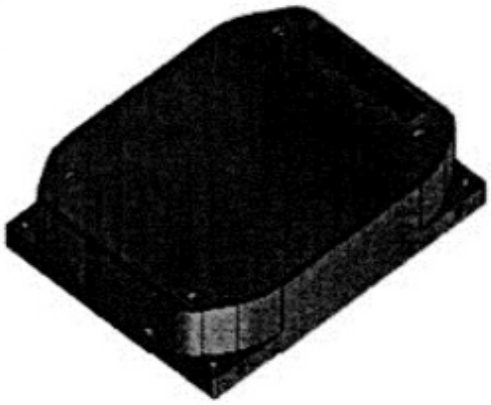


Mechanical Characteristics

Mechanical Dimension

Unit: mm



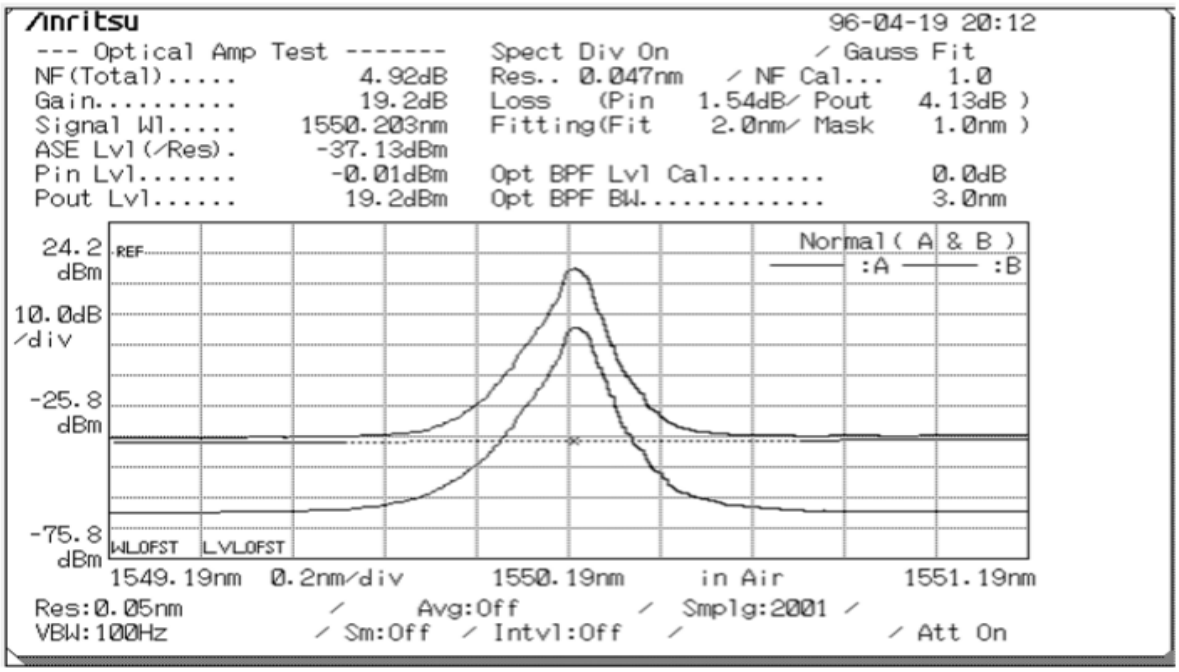


5.2 Laser Safety Information

Class IIIb laser products
Single mode fiber pigtail with connector
Wavelength = 0.96 ~ 1.68 um
Maximum Power = 2.0 W

Caution: Use of controls, adjustments, and procedures other than those specified herein may result in hazardous laser radiation exprosure.

Noise Figure


Anritsu
96-04-19 20:12
--- Optical Amp Test -------
NF(Total)..... 4.92dB
Gain..... 19.2dB
Signal Wl..... 1550.203nm
ASE Lvl(/Res). -37.13dBm
Pin Lvl..... -0.01dBm
Pout Lvl..... 19.2dBm
Spect Div On
Res.. 0.047nm
Loss (Pin 1.54dB/ Pout 4.13dB)
Fitting(Fit 2.0nm/ Mask 1.0nm)
/ Gauss Fit
/ NF Cal... 1.0
Opt BPF Lvl Cal..... 0.0dB
Opt BPF BW..... 3.0nm
24.2 dBm
REF
10.0dB /div
-25.8 dBm
-75.8 dBm
WLOFST
LVLOFST
Normal(A & B)
:A
:B
1549.19nm
0.2nm/div
1550.19nm
in Air
1551.19nm
Res:0.05nm
Avg:Off
Smplg:2001
VBW:100Hz
Sm:Off
Intvl:Off
Att On

Package


PLEASE HANDLE WITH CARE
FRAGILE
PM EDFA
PN: PM-EDFA-26-C
SN: 13909002
Date: 2019-10-14
CA Optronics Group INC.
C Band +23 dBm PM EDFA Module
PN: PM-EDFA-23-C
WARRANTY VOID
User's Manual

CA OPTRONICS GROUP INC. CONTACT INFORMATION

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