

CP FGA Datasheet

Features

- APC/AGC operation
- LOS function
- Transient control
- Power limiting function to prevent receiver overload
- Low total ASE output power level
- Two power monitoring points (input/output)
- 1M Laser Safety Specification compliance

Version History

Date	Version	Description
2024/12/24	1.0	Initialize

Order Information

Part Number	Description	Code
WZEDFA-CW-BAS602426-LC/UPC	-	-

Functional Diagram

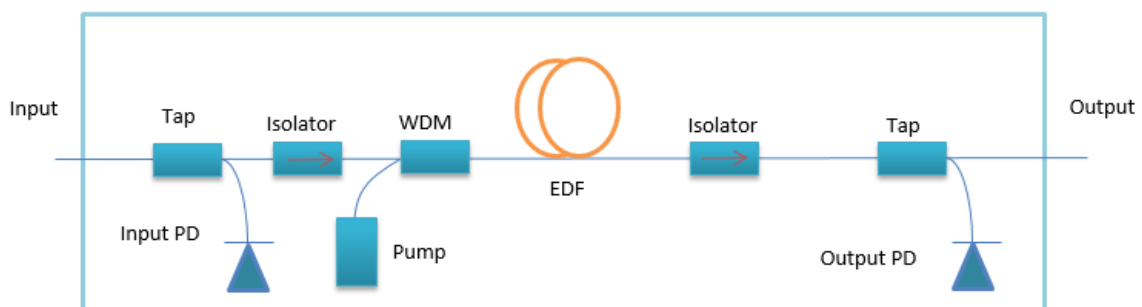


Figure1 Functional Diagram

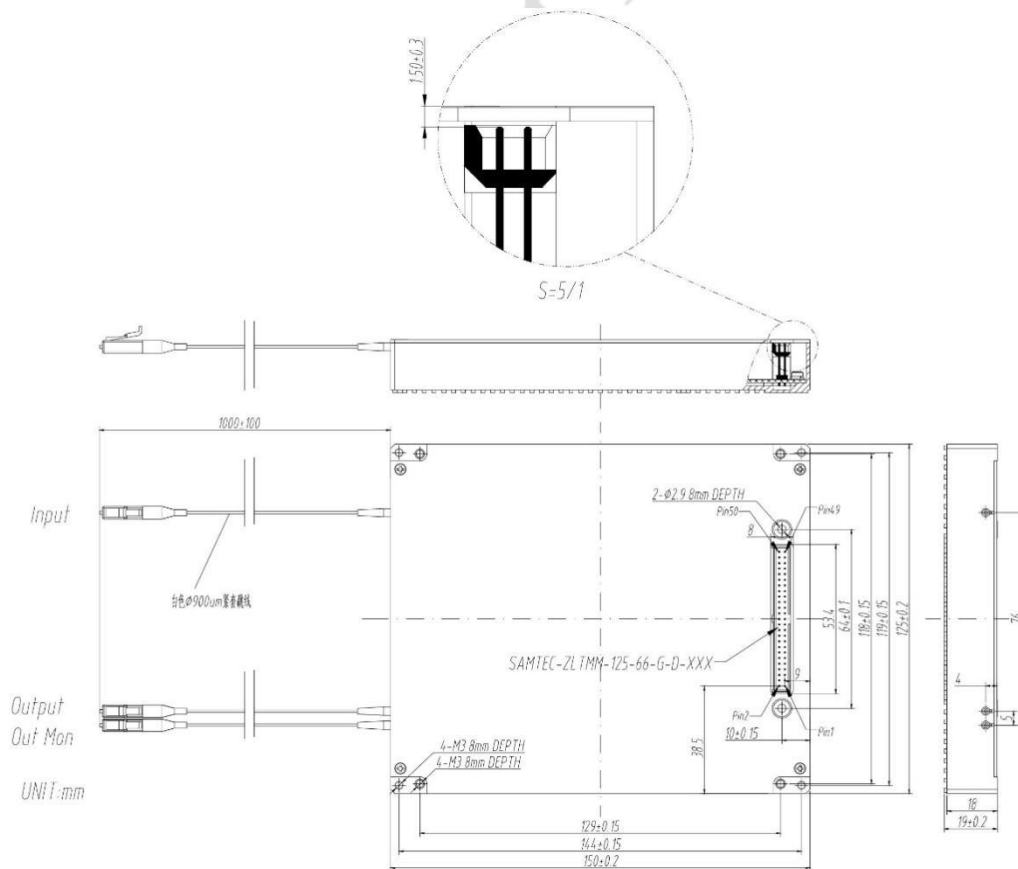
Operation/Storage Temperature and Humidity

Parameter	Specification	Unit	Note
Operating case temperature	-5 ~ 70	°C	
Operation Humidity	5~85	%RH	
Storage Temperature	-40 ~ +85	°C	
Storage Humidity	5~95	%RH	

Optical Characteristics

Parameter	Min	Typ	Max	Units	Comments
Wavelength range	1524		1572	nm	Input/output
Operation mode	AGC/APC				
Input power			2	dBm	
Input power monitor accuracy	-0.5		0.5		
Output total power level		26	26.5	dBm	Within the output power monitoring accuracy
Output power setting Resolution	0.1			dB	
Output power setting accuracy	-0.5		0.5	dB	
Gain		24		dB	
Gain Flatness		1.5	1.7	dB	
Noise figure			6	dB	
Polarization dependent gain			0.5	dB	
Multi-Path Interference			-35	dB	
Pump wavelength		974		nm	
Pump leakage against input and output			-30	dBm	

Mechanical Dimension Part



Electrical requirement

Pin Functionality

Pin	Logic	Symbol	Name/Description	Note
1		+5V	+5V power supply	P
2		+5V	+5V power supply	P
3		+5V	+5V power supply	P
4		+5V	+5V power supply	P
5		+5V	+5V power supply	P
6		+5V	+5V power supply	P
7		GND	GND	P
8		GND	GND	P
9		GND	GND	P
10		GND	GND	P
11		NC	NA	F
12		NC	NA	F
13		GND	GND	P
14	LVTTL	RESET		I
15	LVTTL	RXD	RS-232 input	I
16	LVTTL	TXD	RS-232 output	O
17	LVTTL	Pump Current Alarm		O
18	LVTTL	Input Loss-of-Signal Alarm		O
19		GND	GND	P
20		GND	GND	P
21		I2C_SDA	I2C Data	I/O
22		GND	GND	P
23		I2C_CLK	I2C Clock	I
24		GND	GND	P
25		GND	GND	O
26		GND	GND	P
27		NC		F
28		GND	GND	P
29		NC		F
30		GND	GND	P
31		GND	GND	P
32		GND	GND	P
33	LVTTL	High Temperature Alarm		O
34	LVTTL	Output Power Alarm		O
35	LVTTL	Pump Temperature Alarm		O
36		NC		F
37	LVTTL	Amplifier Disable Input		I
38	LVTTL	Output Power Mute Input		I
39		NC	NA	F
40		Reserved	Reserve	F

41		GND	GND	P
42		GND	GND	P
43		GND	GND	P
44		GND	GND	P
45		+5V	+5V power supply	P
46		+5V	+5V power supply	P
47		+5V	+5V power supply	P
48		+5V	+5V power supply	P
49		+5V	+5V power supply	P
50		+5V	+5V power supply	P

Notes:

1. P: power; I: input; O: output; I/O: input/output; F: NA.

Power Supply Characteristics and Operating Rating

Supply	Min	Typ	Max	Unit
Digital Supply Voltage	4.5		5.5	V
Instantaneous current			8	A
Power Dissipation		25	35	W