

C++L++ EDFA Datasheet

Features

- The C-band working bandwidth is expanded to 1524~ 1572.3nm
- The L-band working bandwidth is expanded to 1575nm~1626.5nm
- DWDM application
- Input/Output power monitoring

Version History

Date	Version	Description
2024/10/11	1.0	Initial

Order Information

Part Number	Description	Code
WZEDFA-MW-B20252524-LC/UPC	C++ Gain: 15~25dB, Output 24dBm L++ Gain: 15~25dB, Output 22.5dBm	-

Operation/Storage Temperature and Humidity

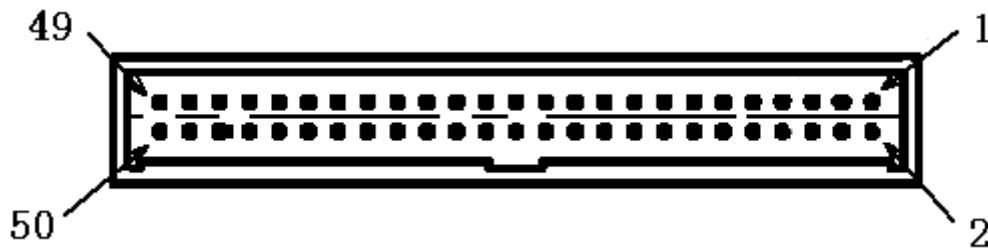
Parameter	Specification	Unit	Note
Operating temperature	-5 ~ 50	°C	
Operation Humidity	5~90	%RH	
Storage Temperature	-25 ~ +70	°C	
Storage Humidity	5~95	%RH	

Optical Characteristics

Public Part(C++)					
Parameter	Min	Typ	Max	Units	Comments
Wavelength range (C++)	1524		1572.3	nm	
Saturation output power		24		dBm	
Output power monitor accuracy	-0.5		0.5	dB	
PDG			0.3	dB	
PDL			0.3	dB	
PMD			0.5	ps	
Return loss	40			dB	
VGFA C60 15/2524					
Signal input power	-27		+9	dBm	
Saturation output power	-2		24	dBm	
Tilt		-1		dB	
Gain	15		25	dB	
NF(tilt=-1dB,Pout=24dBm)	G=25		5.5	dB	
	G=15		10	dB	

Public Part(L++)					
Parameter	Min	Typ	Max	Units	Comments
Wavelength range (L++)	1575		1626.5	nm	
Saturation output power		22.5		dBm	
Output power monitor accuracy	-0.5		0.5	dB	
Ripple@ tilt -1			2.8	dB	
PDG			0.5	dB	
PDL			0.3	dB	
PMD			0.5	ps	
Return loss	40			dB	
VGFA L60 15/2523					
Signal input power	-27		7.5	dBm	
Saturation output power	-2		22.5	dBm	
Tilt		-1		dB	
Gain	15		25	dB	
NF(tilt=-1dB,Pout=22.5dBm)	G=25		8.7	dB	
	G=15		13.4	dB	

Pin Functionality



Pin No.	Definition	Pin No.	Definition
1	+5V	26	GND
2	+5V	27	NC
3	+5V	28	GND
4	+5V	29	NC
5	+5V	30	GND
6	+5V	31	GND
7	GND	32	GND
8	GND	33	High Temperature Alarm
9	GND	34	Output Power Alarm
10	GND	35	Pump Temperature Alarm
11	NC	36	NC
12	NC	37	Amplifier Disable Input
13	GND	38	Output Power Mute Input

Pin No.	Definition	Pin No.	Definition
14	RESET	39	NC
15	RXD	40	NC
16	TXD	41	GND
17	Pump Current Alarm	42	GND
18	Input Loss-of-Signal Alarm	43	GND
19	GND	44	GND
20	GND	45	+5V
21	NC	46	+5V
22	GND	47	+5V
23	NC	48	+5V
24	GND	49	+5V
25	GND	50	+5V

Mechanical Dimension

