NExT-e Solutions

QSFP Datasheet

Features

- 2C control interface
- Pluggable
- AGC operation
- LOS function
- Output power monitoring
- 1M Laser Safety Specification compliance

Version History

Date	Version	Description
2024/12/31	1.0	Initialize

Order Information

Part Number	Description	Code
WZEDFA-WG-BQSF1017	-	-

Operation/Storage Temperature and Humidity

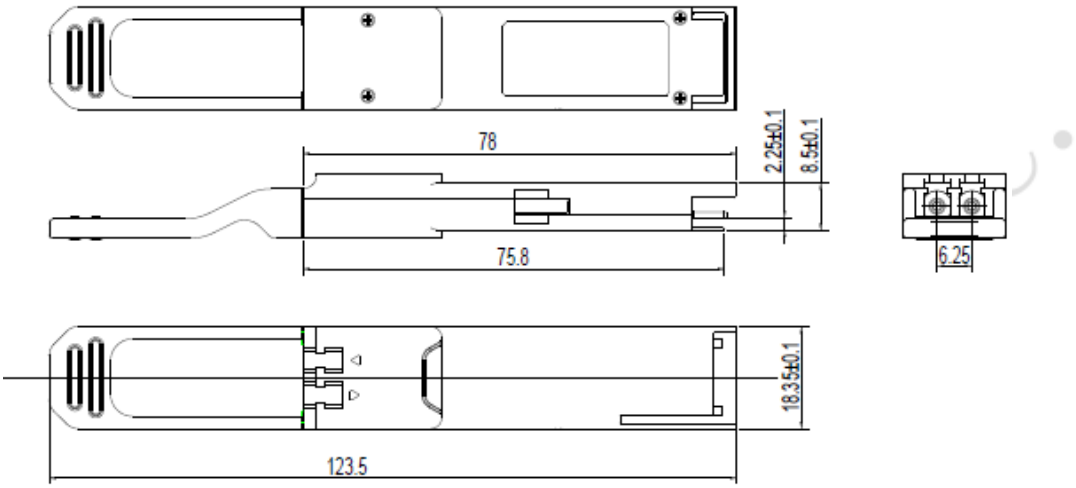
Parameter	Specification	Unit	Note
Operating temperature	-10 ~ 65	°C	
Operation Humidity	5~90	%RH	
Storage Temperature	-25 ~ +85	°C	
Storage Humidity	5~95	%RH	

Optical Characteristics

Parameter	Min	Typ	Max	Units	Comments
Wavelength range	1528		1567.13	nm	
Operation mode	SGC(1)				Settable gain control
Signal input power	-5	7	10	dBm	
Signal input power monitoring range	-10		10	dBm	
Saturation output power		17		dBm	Test Condition : Pin =7dBm, Set Gain = 10dB
output power monitoring range	0		17	dBm	
Gain setting range		10		dB	Factory default gain setting value=10dB
Gain flatness		5.5	6.5	dB	Test Condition : Pin = 7dBm, Set Gain = 10dB at Room
Noise figure		6.5	7.5	dB	Test Condition : Pin = 7dBm, Set Gain = 10dB
Input power Monitor accuracy	-0.5		0.5	dB	
Output power monitor accuracy	-0.5		0.5	dB	
Optical isolation	20			dB	
Return loss	40			dB	

Polarization-mode dispersion			0.5	ps	
Polarization dependent gain			0.5	dB	

Mechanical Dimension



Pin Functionality

Pin No.	Definition	Pin No.	Definition
1	GND	38	GND
2	N.C.	37	N.C.
3	N.C.	36	N.C.
4	GND	35	GND
5	TXD (REV)	34	N.C.
6	RXD (REV)	33	N.C.
7	GND	32	GND
8	ModSel	31	AMP_DIS
9	Module Reset	30	VCC
10	VCC	29	VCC
11	SCL	28	Interrupt
12	SDA	27	Module Present
13	GND	26	GND
14	N.C.	25	N.C.
15	N.C.	24	N.C.
16	GND	23	GND
17	N.C.	22	N.C.
18	N.C.	21	N.C.
19	GND	20	GND

Notes:

1. Module ground pins GND are isolated from the module case and chassis ground within the module.

2 All logic levels are LVTTL.

3 Pin31: It should be pulled up with a 4.7k-10k resistor on the host board, HIGH: shutdown.