

Technical Specifications

Model No.	RD-EDFA-M3-C1-N-23dBm-09SM-1m-FC/APC
Product Name	EDFA
Technical File	RD.02.0671-000_SPEC
Version	V1.0

1. Optical Specifications

Parameter	Min	Typ.	Max	Unit
Operating Wavelength	1527	1550.12	1565	nm
Input Optical Power	-15	-5	5	dBm
Output Optical Power	13	23	23	dBm
Noise Figure@Pin=-5dBm, Pout=23dBm	-	-	5.5	dB
Polarization Correlation Gain	-	-	0.5	dB
Polarization Mode Dispersion	-	-	0.5	ps
Input Return Loss	45	-	-	dB
Output Return Loss	45	-	-	dB
Operating Mode	APC、ACC			

2. Working Environment

Parameter	Min.	Typ.	Max.	Unit
Working Temperature	-10	+25	+60	℃
Storage Temperature	-40	-	+85	℃
Relative Humidity	0	-	90	%

3. Electrical Specifications

Parameter	Min.	Typ.	Max.	Unit
Power Supply	+4.75	+5	+5.25	V
Power Consumption	-	-	8	W

4. Connector Type

Communication: RS232 26-pin pitch 2.0mm connector. PIN Assignment as below.

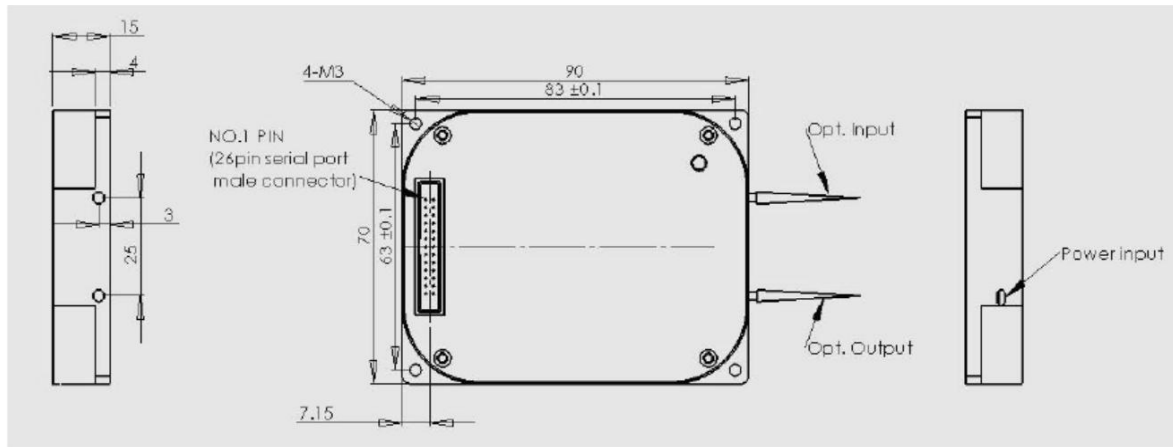
PIN	Designation	Symbol	Level	Description
1	VCC_3.3V	P		3.3V power supply
2	VCC_3.3V	P		3.3V power supply
3	GND	P		Power ground
4	GND	P		Power ground
5	NC	F		Not connected
6	NC	F		Not connected
7	NC	F		Not connected
8	NC	F		Not connected
9	Output_Alarm	O	LVTTL	Output power alarm
10	Input_Alarm	O	LVTTL	Input power alarm
11	PumpTem_Alarm	O	LVTTL	Pump temperature alarm
12	Pump_CurrentAlarm	O	LVTTL	Pump current alarm
13	NC	F		Not connected
14	ModuleTem_Alarm	O	LVTTL	Module temperature alarm
15	NC	F		Not connected
16	NC	F		Not connected
17	NC	F		Not connected
18	Reset	I		External reset input
19	GND	P		Power ground
20	GND	P		Power ground
21	RXD	I	RS232	Serial data input
22	TXD	O	RS232	Serial data output
23	GND	P		Power ground
24	GND	P		Power ground
25	VCC_3.3V	P		3.3V power supply
26	VCC_3.3V	P		3.3V power supply

Note1: P: power supply; I: input; O: output; F: overhang.

Note2: Alarm message is available when all output alarm pins are low.

Note3: External reset input is active low.

5. Mechanical Structure



6. Pigtail

Items	Specifications
Fiber Color	White
Fiber Type	G657A 900μm tube
Pigtail Length	1000±10mm
Connector Type	FC/APC