

Erbium-Doped Fiber Amplifier

Part number: SZK-M-C-23-20-FA-1.5

Abbreviation:

Abbreviation	Description
EDFA	Erbium doped fiber amplifier
ACC	Automatic current control
AGC	Automatic gain control
APC	Automatic power control

Working environmental specifications:

NO.	Parameters	Min	Max	Unit	Remarks
1.	Operating temperature	-5	55	C	Necessary heat dissipation treatment
2.	Storage temperature	-40	85	C	
3.	Operating relative humidity	5	85	%	
4.	Store relative humidity	5	95	%	

Optical specifications:

No.	Parameter	Min	Typical	Max	Unit	Remarks
1.	Wavelength range	1529.55	1550.12	1563.86	nm	ITU: C17~C60
2.	Number of wavelengths	-	1	-	CH	
3.	Input optical power range	-30	3	+10	dBm	
4.	Output total optical power range	0	23	23	dBm	
5.	Gain	18.5	20	21.5	dB	Non-adjustable gain
6.	Gain flatness	-	1.5	2	dB	@ gain20±1.5dB
7.	Noise	-	5.5	6	dB	
8.	Return loss	45	-	-	dB	
9.	No light reporting	-60	-60	-60	dBm	
10.	Output power stability	-	-	±0.2	dB	
11.	Power reporting accuracy	-	-	±0.5	dB	
12.	Output power control accuracy	-	-	±0.5	dB	
13.	Input and output isolation	30	-	-	dB	
14.	Polarization-dependent gain	-	-	0.3	dB	
15.	Polarization mode dispersion (PMD)	-	-	0.5	ps	
16.	Input the low light signal alarm Threshold (Input Alarm Simultaneous Pump Off)	-	-31	-	dBm	The scope can be set -31~+9dBm, 1dB upward hysteresis, less than -31dBm reports no light
17.	Output light alarm threshold	-	-10	-	dBm	The scope can be set -10~22, 1dB upward hysteresis, less than -11 reported no light
18.	Settable range of the APC output power	0	-	23	dBm	
19.	Input and output fiber length	95	100	105	cm	Contains the connector length
20.	Input and output fiber type	900um white loose tube SMF-28e				
21.	Fiber optic connector type	FC/APC				
22.	Working mode	APC(default)/ACC				
23.	Ports	-				
		2 (INPUT & OUTPUT)				

Electrical specifications:

NO	Parameter	Min	Typical	Max	Remarks
1	Operating voltage	4.75V	5V	5.25V	
2	Module power consumption	-	-	20W	Due to the high power consumption, it is necessary to add a heat sink or other methods

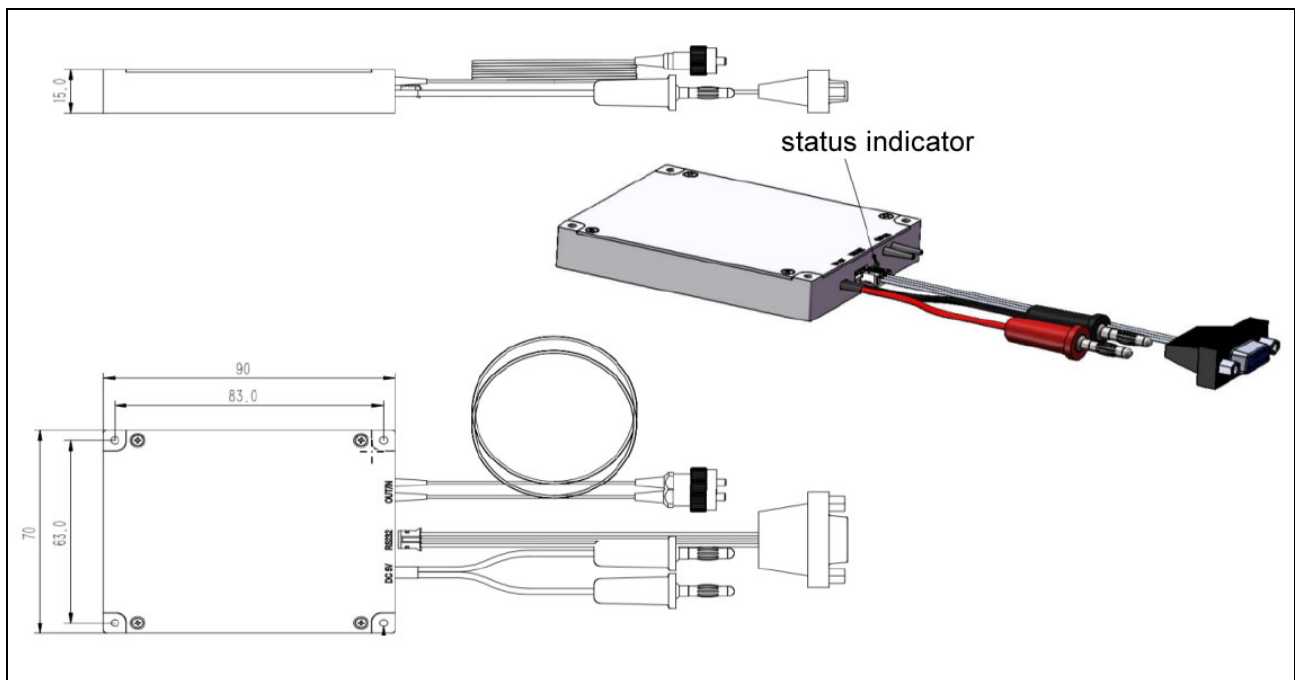
Hardware and communication interfaces:

NO	Item	Material specifications	QTY	Length
1	+5V	Silver-plated copper wire conductor multi-stranded 2.0 square red	1	50±5cm (with connector)
2	GND	Silver-plated copper wire conductor strands 2.0 square black	1	50±5cm (with connector)
3	RS232	Silver-plated three-pair high temperature line AFS250 3*0.15 square	1	50±5cm (with connector)

Software commands

The software supports the functions of "power down saving, power-on loading" and "setting and saving in APC and ACC mode". Please refer to the user manual, for detailed instructions and usage of the host computer software.

NO	Item	Value	Unit
1	baud rate	9600	Bit/s
2	Data bits	8	Bit
3	Stop bit	1	Bit
4	Check bits	None	



Pack:

- Test report
- Serial port adapter cable
- CD (with host computer software)
- User manual