

# Single mode Erbium Doped Fiber Amplifier

➤ **PN: RZ-1-C-23-28-FC/APC-05**

➤ **Abbreviation**

Abbreviation	Explain
SM EDFA	Single mode Erbium Doped Fiber Amplifier
ACC	Automatic current control
APC	Automatic power control

➤ **Working Environmental indicators**

Number	Parameters	Min	Typical	Max	Unit	Remarks
1	Operating temperature	-5		55	°C	
2	Storage temperature	-40		85	°C	
3	Transportation temperature	-40		85	°C	
4	Operating humidity	5		95	%	Telcordia GR-63

➤ **Electrical Index**

## Supply Voltage & Current

Parameters	Min	Typical	Max	Unit	Remarks
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Voltage	4.75	5	5.25	V	
Current	-	-	3	A	
Power			15	W	

➤ **Connectors**

**Power cord & RS232**

## ➤ Optical Index

Parameters	Min	Typical	Max	Unit	Remarks
Wavelength	1529.55	-	1563.86	nm	Single wavelength
Return Loss	45	-	-	dB	
Fiber Type	SMF-28e 900um Loose White				IN & OUT
Fiber length	49	50	51	cm	IN & OUT (Excluding connectors)
Connectors Type	FC/APC				IN & OUT
Operation mode	APC (Default)		ACC		
No power report	-60			dBm	
Output power stability			±0.1	dB	
Power reporting fineness			±0.5	dB	
Optical isolation	30			dB	IN & OUT
PM dispersion			0.5	ps	
Input average power	-30	-5	10	dBm	
Gain Range	-	-	28	dB	
Gain flatness	-	1.5	2	dB	
Output average power	-11	-	23	dBm	
Noise figure	-	5.5	6	dB	@Output=23dBm
Input optical power alarm	-34	-31	9	dBm	Range:-34~9dBm , Upward hysteresis 1dB, Prompt no power @ < -34dBm (Default)
Output optical power alarm	-14	-11	22	dBm	Range:-14~22dBm , Upward hysteresis 1dB, Prompt no power @ < -14dBm(Default)
Turn off the pump gate limit	-34	-33	9	dBm	Range:-34~9dBm , Upward hysteresis 1dB @<-34dBm (Default)
ACC mode current control accuracy			±5%		
Ports	-	-	-	-	2 @ ( 1 in、 1 out )

➤ **Dimension**

(The position tolerances are GB / T1184-K; the size tolerance  $X \pm 0.15$ .  $X \pm 0.1$ ,  $XX \pm 0.05$ , with special tolerances are shown in Fig)

