

DATA SHEET

1RU SINGLE CHANNEL COMPACT EDFA

DESCRIPTION

The 1RU single channel compact EDFA is a high stability output power EDFA. The stability pump laser and unique ATC (automatic temperature control) and AGC (automatic gain control) circuit are employed in it as the key components to ensure the high stability and reliability of output power. The unique optical circuit design ensures the excellent optical character. The high stability and high precision MPU system are employed to ensure the control adjustment and display are intelligent and user-friendly. Professional design GFF (gain flattening filter) with excellent optical path design provides the best optimization on flatness and noise. It can provide 40~80 channels, and flatness above 35nm.

The optical circuit is designed especially for digital optical fiber communication system including lower noise figure, high output booster and high sensitivity pre-amplifier (to improve the system loss budget) and broad input power range and output power that can be modified easily.



KEY FEATURES

Low noise figure: typical figure is under 4.5dB

Redundancy hot swappable power module:
supported 110/220VAC and -48VDC (or a mix)

Works for 19' or 21' racks

OLED display shows and controls the system parameters, LED status indication shows the alarm status.

Support ETH, RS232 ports by RJ45

Network Management interface supporting SNMP via Ethernet port

AGC (Automatic Gain Control) or APC (Automatic Power Control) on optical output

APPLICATIONS

DWDM/CATV/SDH

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ENVIRONMENTAL SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Operation Temperature	-5	25	+60	°C
Storage Temperature	-40	-----	+80	°C
Operation Humidity*	5	-----	85	%
Storage Humidity	5	-----	85	%

(*) not condensing

OPERATING SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Supply Voltage		-48 (*)		V
Power Dissipation		18		W

(*) in alternative 100VAC, 220VAC

OPTICAL SPECIFICATIONS

BOOSTER

Parameter	Min.	Typ.	Max.	Unit
Wavelength	1530	1550	1565	nm
Input Power	-6		6	dBm
Output Power			20	dBm
Output Power Variation	-0.5		0.5	dB
Noise Figure			4.5	dB
PMD			0.5	ps
PDG			0.3	dB
Return Loss	-45			dB

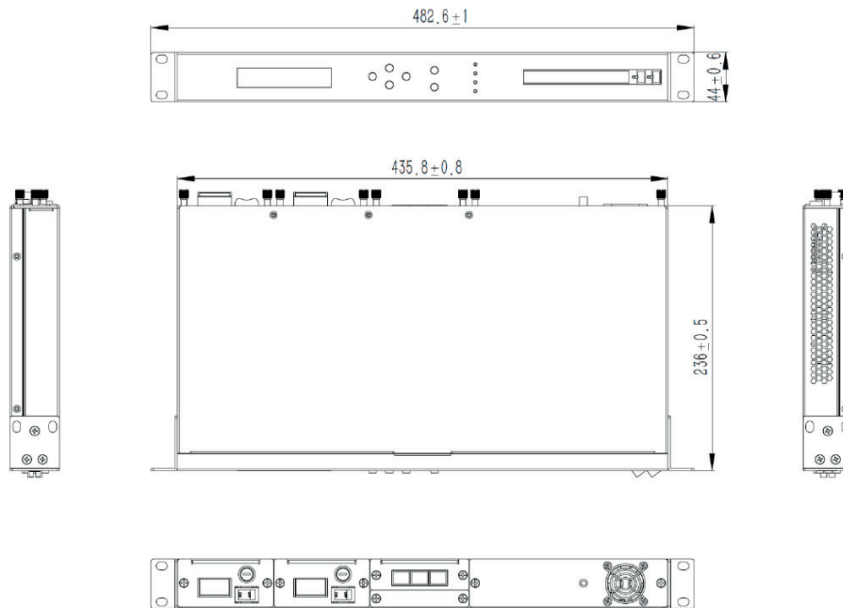
PREAMPLIFIER

Parameter	Min.	Typ.	Max.	Unit
Wavelength		1550.12		nm
Input Power	-45		-25	dBm
Output Power	-20		0	dBm
Output Power Variation	-0.5		0.5	dB
Gain		25		dB
Noise Figure		5.0	5.5	dB
Return Loss	-45			dB

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DIMENSIONS



ORDERING INFORMATION

Jabil Part Number	Package	Gain	Output Power	Other Info
JP-EDFA-1RU-BOOSTER	1RU		20	
JP-EDFA-1RU-PREAMP	1RU	25	0	

For additional information, visit jabil.com/photonics