

L-Band Module EDFA M1021 Series

Application

1. Rack mount fiber amplify system
2. Optical video transmission system
3. Optical distribute system



Feature

- Low noise figure: Typical Noise Figure is 4.5dB
- High stability and reliability: MTBF > 100000 hours
- High Precise APC, AGC, ACC Circuit
- Intelligent temperature control system
- High Flatness: L-Band Typ 2dB
- Compact Size: 90x70x15mm
- OEM is available
- Compatible with Bellcore GR-1312-CORE standard

Description

This optical amplifier is high stability output EDFA. The key components of the product are high reliability multimode PUMP laser. A unique APC (Automatic Power Control) and ATC (Automatic Temperature Control) circuit insures the high stability and reliability output power, the unique optical circuit design ensures the excellent optical performance. The high stability and high precision MPU system to ensure the control, adjustment and monitor are intelligent and easy.

Professional designed GFF (Gain Flattening Filter) and excellent optical design, ensure the best flatness and noise figure.

The product cover the L-Band , specially designed for digital fiber communication long distance, which could combine with dispersion compensation device: (1) Lower noise figure. (2) High output power booster and low sensitivity, ensure dispersion and error rate to be optimized efficiently. (3) Broad input and output power range adjustable and compatible .

Intelligent monitor and manage system. Perfect interface RS232, RS485 and TTL is available, ensure high compatibility and integration.

Optical Characteristics

Parameter	Symbol	Min	Typ	Max	Unit
wavelength	λ_c	1570	-----	1603	nm
Output power ⁽¹⁾	Po	13	-----	20	dBm
Input power	Pi	-3	-----	+10	dBm
Gain	G	-----	20	-----	dB
Noise Figure ⁽²⁾	NF	-----	5.0	-----	dB
Output power stability	ΔP_o	-----	± 0.05	± 0.1	dB
Return loss	RL	-----	-----	-45	dB
Polarization dependent gain	PDG	-----	-----	0.3	dB
Polarization mode dispersion	PMD	-----	-----	0.5	ps

(1) : 2 output ports is available

(2) : Test at 0dBm input

Electric Characteristics

Parameter	Symbol	Min	Typ	Max	Unit
voltage	Vps	4.8	5.0	5.2	VDC
consumption ※	P	-----	-----	10	W

※consumption is up to the output power and environment temperature

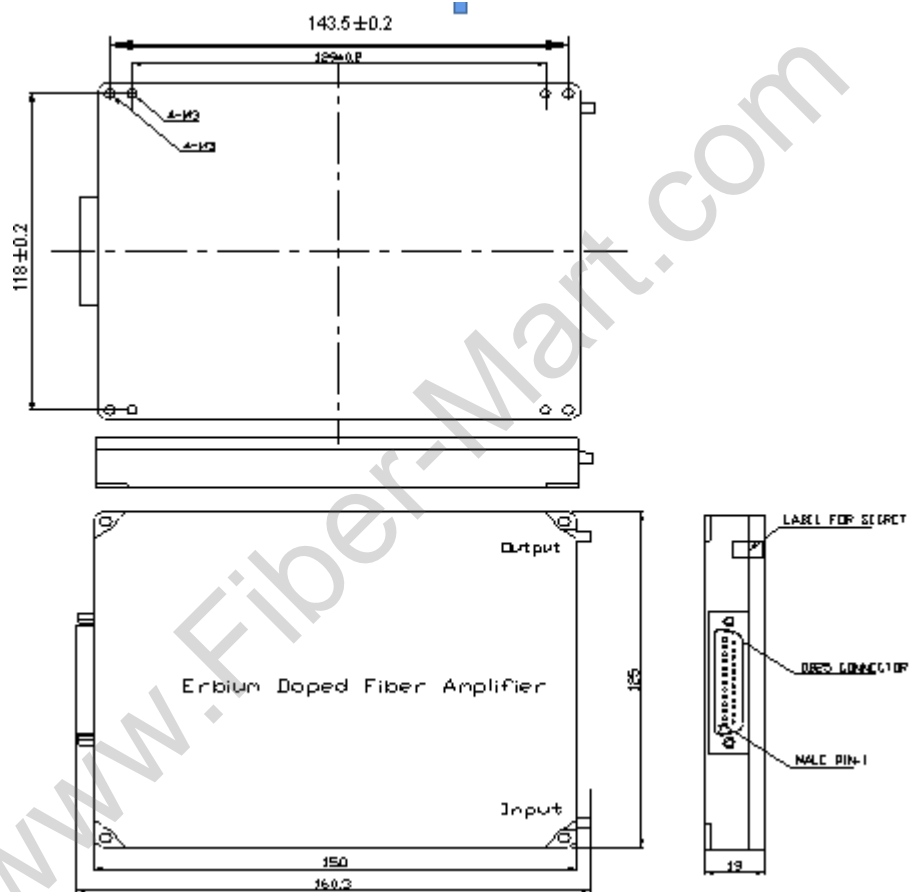
Environmental Characteristics

Parameter	Symbol	Min	Typ	Max	Unit
Operating temperature	Tw	-5	-----	60	°C
Storage temperature	Ts	-40	-----	80	°C
Humidity	-----	10	-----	85	%

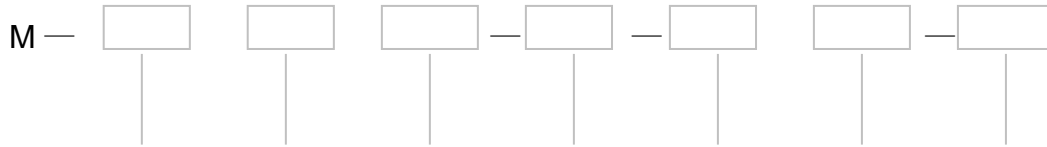
(3) : Non-condensing

Mechanical Dimension

M1021: 150×125×19mm



Order information



Product	Mechanical	Application	Input power	Output power <small>註 1</small>	Output Ports	Voltage	Interface
M:module	10: dimension 150×125×19mm	2: fiber amplify	1: -3~+10 dBm 9: other	13: 13dBm ... 22: 22dBm	1.: 1 port 2: 2 ports	7: 5VDC 8: 3.3VDC	1: SC/UPC 2: SC/APC 3: FC/UPC 4: FC/APC 5: LC/UPC 6: LC/APC

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