

1021 MSA Size EDFA

Features

- Intelligent Electronic Control Built-in
- Low NF design
- Diversified MSA Size Series
- Higher Output Power for 1021 and 1021C
- Dual Amplifiers in one case for 1021T
- Smart Control Modes (AGC/APC/ACC)
- C-band Or L-band can be Customed
- Telcordia GR-1312 Conforming Reliability

Applications

- Ultra high speed optical commutation system
- Optical communication system
- Long-distance backbone network
- DWDM transmission system

Comparison of Models

Feature Description	1021	1021T	POP1021C
Number of Amplifier	1	2	1
Pump Laser	Uncooled pump	Uncooled pump	Cooled pump
Footprint	90 x 70 x 15 (mm)		
Maximum Optical Output	Up to 22dBm	Up to 20dBm for each	Up to 24dBm
Communication	RS232 LVTTL level (3.3V)		
Power Supply	3.3V (5V Optional)		
Control Modes	AGC, APC or ACC		
Gain Flatness	Optional for multi-channel application with GFF		
Firmware Field Upgrade	Remote, hitless		
Operating Temperature	-10 to 65°C ambient (70°C Case)		
Electrical Connector	ZLTMM-115-73-S-D by Samtec		

Note: More MSA information, Please contact us.

Optical Specifications

Parameter		Min.	Typ.	Max.	Unit
Wavelength	C-Band	1528		1565	nm
Range(Custom)	L-Band	1570		1605	nm



Note

Maximum Output Power(Custom)	1021			22	dBm
	1021T			20	dBm
	1021C			24	dBm
Small Signal Gain at -25dBm Input		25	30		dB
Gain Flatness at Specified Gain(multi-channel EDFA)			± 0.5	± 1.0	dB
Noise Figure, for $G > 20\text{dB}$			5.0	5.5	dB
Optical Return Loss (at Input and Output Ports)		40			dB
Polarization Mode Dispersion			0.3	0.5	ps
Polarization Dependent Gain			± 0.2	± 0.5	dB
Signal Input & Output Detection Dynamic Range		25	30		dB
Signal Detection Accuracy (Within the Range)			± 0.3	± 0.5	dB
Transient Overshoot (15 dB Drop)			0.5	1	dB
Transient Settling Time				1	ms
Electrical Connector		30 PIN (ZLTMM-115-73-S-D)			
Dimensions (H x W x D)		90 x 70 x 15 (mm)			
Heatsink(Optional)		90 x 70 x 4.5 (mm)			

More Custom optical Performance can be choose, Please contact us.

Ordering information

1021X	—	XX	X	X	XX	—	XX	X
Type		Typical Gain		Type	Max Ouput Power		Optical Connector	Band
1021—uncooled EDFA 1021T—2in1 EDFA 1021C—Cooled EDFA			O—Single Channel W—Mult-Channel	B—Booster L—Line P—PreAmp			FC—FC/PC FA—FC/APC SC—FC/PC SA—FC/PC LC—FC/PC LA—FC/PC Other custom	C—C-Band L—L-Band Other custom