Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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FINISAR

Single Channel Micro EDFA

Key Features

- Very low power consumption (uncooled pump)
- Micro 45x70x12 mm form factor
- Up to 16 dBm output power
- Fast power transient suppression for stable output power
- Can support G.657 low bend radius fiber pigtails
- Pre-amplifier or booster configuration

Applications

- Pre-amp or Booster for 40 Gb/s and 100 Gb/s transponder line cards
- Very long reach 10 Gb/s applications
- Submarine networks
- Military and industrial applications requiring small size and low power consumption
- Single channel networks

Overview

Finisar's Single Channel Micro EDFA is a cost-effective micro processor-controlled module for amplifying single channels in the C-band. The amplifier is provided in a micro 45x70x12 mm package, and exhibits low power consumption allowing it to be easily integrated onto space and power constrained transponder line cards. The EDFA can be configured as either pre-amplifier or booster.

In order to support 40 Gb/s and 100 Gb/s applications, the amplifier provides excellent broadband noise performance. Fast transient suppression circuitry is also provided, allowing the amplifier output power to be kept constant when there are fast changes in input power.

Specifications

Parameter	Specifications			Remarks
	Min.	Max.	Units	
Wavelength Range	1528.77	1567.13	nm	
Input Power Range	-10	5	dBm	
Output Power Range	0	16	dBm	
Operational Gain	5	26	dB	
Noise Figure		6.5 11	dB dB	At -10 dBm input with 26dB signal gain At 5 dBm input with 5 dB signal gain
Transient Overshoot / Undershoot	-0.5	0.5	dB	Rise / fall time > 1msec, Input power change < 6 dB, Signal output power (APC) = +16dBm
Power consumption		2.5	W	Over case temp range to EOL
Power Supply	2.97	3.63	V	
Operating Case Temperature	0	70	°C	
Storage Temperature Range	-40	85	°C	
Dimensions (WxHxD)	45x70x12		mm	
Laser safety	Class 1M*			

* Class 1M products are not hazardous under normal circumstances, but may pose an eye hazard when the laser output is viewed with certain optical instruments (for example eye loupes, magnifiers and microscopes) within a distance of 100 mm

Specifications above refer to Finisar part number FOA-M1100MB-ESC1C-AA001. Custom specifications can be considered upon request.

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