Finisar®

Compact 70x90 mm Variable Gain EDFA

PRODUCT BRIEF

KEY FEATURES

- Up to 15 dB dynamic gain range with excellent gain flatness
- Up to 21 dBm output power
- Low noise figure over a large dynamic range
- Fast transient suppression
- Supports FG amplifier with VOA configurations for reduce cost and backward compatibility to older systems
- Can support G.657 low bend radius fiber connectors
- RS232 and I²C communication, full set of control options and alarms
- Qualified to Bellcore GR1312 and GR1089
- Class 1M* laser product classification

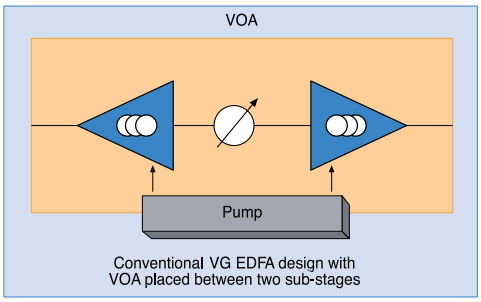
APPLICATIONS

- Metro, regional and long-haul WDM networks
- ROADM systems requiring full East/West separation
- OSNR-sensitive applications
- Dynamic networks
- Small footprint and low power consumption systems

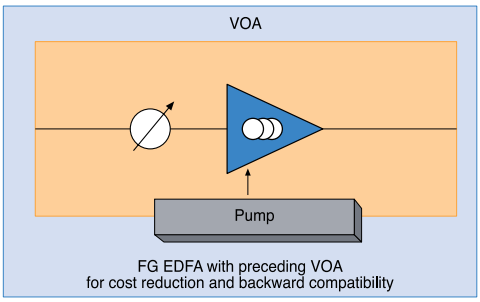
OVERVIEW

Finisar's Compact 70x90 mm Variable Gain (VG) EDFA is a micro processor-controlled module for C-band amplification. The Compact VG module provides drop-in replacement software and hardware compatibility to line cards already designed to accommodate fixed gain (FG) EDFA. The VG EDFA, enables a new modular and flexible approach to amplifier design and can be mixed and matched with FG EDFAs to support all amplifier configurations using the same line card, including: single stage, dual-stage with mid-stage access, and East/West separation for ROADM applications. In addition, communication between two modules on a line card is supported, thus allowing the modules to be operated as a single unit in a master/slave configuration.

Besides fixed gain and variable gain configurations, this flexible platform can also accommodate a FG EDFA with VOA for cost reduction and backward compatibility. The Variable Gain Compact amplifier provides a large dynamic gain range, excellent gain flatness and very low noise figure over all its operational regimes. The fast automatic gain control (AGC) digital control electronics allow the amplifier to keep the gain constant and stable particularly in cases when there are very fast and large changes in the input power.



Conventional VG EDFA design with VOA placed between two sub-stages



FG EDFA with preceding VOA for cost reduction and backward compatibility

KEY SPECIFICATIONS

Parameter	Specifications			Remarks
	Min.	Max.	Unit	
Wavelength Range	1528	1567	nm	
Gain Range	8	35	dB	Gain range of up to 15 dB can be selected within this range
Saturated Output Power		+20.5	dBm	
Composite Input Power	-40	+8	dBm	35 dB dynamic range for transient suppression
Gain Flatness (peak to peak)		±0.5	dB	Over entire operating range
Noise Figure		5.5	dB	(max gain, min input power)
Gain Transient Suppression, Overshoot/ Undershoot	-1	+1	dB	16 dB add/drop with 1 µs rise/fall time
Gain Transient Suppression Time		300	µsec	16 dB add/drop with 1 µs rise/fall time
Settable Tilt		±2	dB	
Gain Accuracy	-0. 25	+0. 25	dB	
PDG		0.3	dB	AGC mode
PMD		0.3	psec	
Power Supply Voltage	+4.75	+5.25	V	Option for 3.3 V operation
Operating Case Temperature	-5	+70	°C	
Power Consumption		8	W	
Dimensions	70x90x18		mm	
Laser Safety Classification	Class 1M*			
Modes of Operation	AGC, APC, pump power			
Communication	RS232, I^2C			

* 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

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