

PRODUCT BRIEF

KEY FEATURES

- ▶ Low power consumption
- ▶ Compact form factor
- ▶ Up to 22 dBm output power
- ▶ Flat gain
- ▶ Low noise figure
- ▶ Fast transient suppression
- ▶ Can support G.657 low bend radius fiber connectors
- ▶ Software-configurable as pre-amplifier or booster in same part number
- ▶ RS232 and I2C communication, full set of control options and alarms
- ▶ Qualified to Bellcore GR1312 and GR1089
- ▶ Class 1M* laser product classification

APPLICATIONS

- ▶ Metro and regional DWDM networks
- ▶ Sonet/SDH and Datacom networks
- ▶ Free space optics communications
- ▶ Military and industrial applications
- ▶ Test and measurement systems
- ▶ Video surveillance systems
- ▶ LIDAR
- ▶ Microwave optics

OVERVIEW

Finisar's 70x90 mm Fixed Gain (FG) EDFA product line supports a full range of C- or L-band fixed gain WDM EDFAs, as well as narrow band, CWDM and single channel EDFAs. The products support either cooled or uncooled pumps, thus allowing the optimal combination of size, power consumption and performance to be achieved for each application.

The platform incorporates advanced control and monitoring functions, and provides fast transient suppression for stable gain in all operating conditions. The FG EDFA can be software-configured as a pre-amplifier, booster or inline amplifier, thus allowing a single part-number to address different network functions.

These products are available in a wide variety of gain configurations targeting different output powers. In addition, they can be configured with a VOA (Variable Optical Attenuator) to more precisely maintain optical output power.



KEY OPTICAL SPECIFICATIONS

Parameter	Specifications			Remarks
	Min.	Max.	Unit	
Wavelength Range	1528	1567	nm	Amplifier can be operated gain flattened within a narrow bandwidth of ± 2 nm
Input Power Range	-40	+8	dB	30 dB dynamic range for input detectors, software selectable for booster and pre-amplifier configurations.
Saturated Output Power		+22	dBm	
Noise Figure		6	dB	
Operating Case Temperature	0	+70	$^{\circ}$ C	
Storage Temperature Range	-40	+85	$^{\circ}$ C	
Power Consumption		8 3	W W	Cooled Pumps Uncooled Pumps
Power Supply	+4.75 or +3.05	+5.25 or +3.55	V	
Dimensions (WxHxD)	70x90x15		mm	Other form factors available
Laser Safety	Class 1M			For output power <20.5 dBm

* 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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