

# Gain Clamped EDFA

Patent Pending

## Product Description

The gain clamped (GC) series EDFA has the unique capability of gain clamping. Based on patent pending all optical technology, it has nanosecond fast response offering transient free and polarization hole burning free operation. These unique features make GC series amplifier the ideal candidate in dynamic (such as optical burst switch) and long haul optical communication systems. It also perform better than conventional EDFA in terms of high gain accuracy and 0-channel tune up performance.

## Preliminary Specification

Gain Clamped EDFA	Min	Typical	Max	Unit	Comment
Wavelength Range	1528		1565	nm	
Signal Gain		20		dB	Customer Spec
Output Power			18	dBm	Customer Spec
NF		4.5	5.5	dB	
Gain Flatness P-P		1	1.5	dB	
Gain Accuracy	-0.5		0.5	dB	
Transient		0	0	dB	
Package dimension		20x150x250		mm	Customer Spec

## Features

- Nanosecond Gain Clamping
- 0-Channel Tune Up
- Transient Stable
- No PHB
- High Gain Accuracy
- Low Noise Figure

## Applications

- Dynamic network where the transient performance of EDFA is critical.
- DWDM long haul system where PHB significantly limit the distance