

## Features

- \* Bit-rate transparency
- \* Connectorized single-mode fiber pigtail
- \* Exceptionally low noise figure
- \* Optically isolated input and output ports to maintain stable operation of both amplifier module and transmitter laser.
- \* +5.0 or +3.3 Vdc operating voltage
- \* Low power consumption

## Applications

- \* Narrowband amplification in L-band
- \* Metropolitan and access network systems
- \* CATV network systems

## Description

**GIP Technology** L-band Erbium-Doped Fiber Gain-Block Module (TLM-LEFA-00-00-M) is mainly designed for use in the rapidly growing metro market. Using simple optical configuration, this series exhibits extremely small size and low power dissipation over a wide operating temperature and wavelength range. This makes them especially suitable for systems requiring moderate gain (or power) in a restricted-space environment.



The low-profile package provides solutions for multiple applications and serving area sizes.

The CGB Modules provide standard compact onboard mountable package, which can be easily driven by 30-pin female or specified electric interface.



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## Specifications

Optical Information		Unit	Description		
			Booster	In-line	Pre
Control mode			APC		
Operating wavelength range		nm	1570~1603		
Input power range		dBm	-10 ~ +10	-20 ~ 0	-30 ~ -10
Saturated output power*1,2	Max.	dBm	20	20	15
Small signal gain*2	Min.	dB	20	23	27
Noise figure*2	Max.	dB	6.5	6.0	6.0
Polarization dependent gain	Max.	dB	0.5		
Polarization mode dispersion	Max.	ps	0.5		
Return loss	Min.	dB	45		
Connector			SC or FC		
Electrical Information					
Operating voltage		Vdc	+3.3 or +5		
Control interface			RS232		
Environmental Information					
Case temperature		°C	0 ~ 65		
Storage temperature		°C	-20 ~ 80		
Relative humidity (non-condense)		%	5 ~ 85		
Mechanical Information					
Dimension (W x L x H)		mm	70 x 90 x 20		

\*1. Saturated power is composed of optical signal and ASE power.

\*2. Measured at 1585nm