

Optical Fiber Amplifier

Standard EDFA

OFA-TC2 Series

The LiComm Standard EDFA OFA-TC2 series is a full-functioning EDFA module with control circuitry packaged inside. It is designed for a single wavelength and narrow band fiber optic communications system in core networks, access networks, or CATV networks. The OFA-TC2 series provides very stable output power up to 23 dBm and noise figure of less than 5 dB in C-band over wide operating temperature range. Compact size (140 x 100 x 12 mm), combined with extremely low power consumption, allows the OFA-TC2 series to be highly suitable for applications of power equalization or pre-emphasis in very crowded telecom and CATV transmission systems.

Features

- Compact size (140 x 100 x 12 mm)
- CATV-network-proven low noise figure and superb non-linearity performance
- Extremely low power consumption over wide operating temperature range
- EDFA module including electric control circuit
- High output power up to 23 dBm
- Wide input dynamic range
- Low noise figure
- APC (Automatic Power Control) or AGC (Automatic Gain Control)
- Control & monitor by RS232
- LVTTTL Alarm
- Single + 5 V power supply

Applications

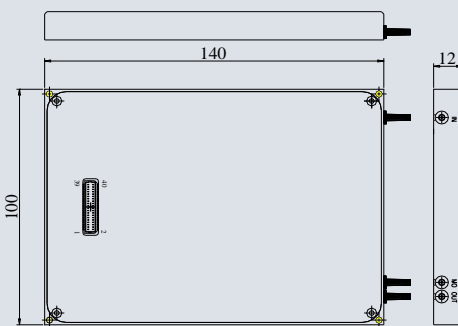
- 2.5 G/10 G single channel amplification
 - Booster, In-line, Pre-Amp
- Narrow band amplification in C-band
- CATV network
 - Power booster, Line Amp
 - Distribution, Supertrunking
- LANs and MANs
- SONET/SDH system



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Mechanical Dimension
(140 X 100 X 12 mm)



Optical Characteristics

Parameter	Symbol	OFA-TC2	Unit
Signal wavelength range	λ	1528 ~ 1563	nm
Input power	P_{IN}	-30~0	dBm
Saturation Output power ⁽¹⁾	P_{OUT}	23	dBm
Small signal gain ⁽²⁾	G	40	dB
Noise figure	NF	<5.0	dB
Optical isolation	ISO	>30	dB
Return loss	RL	>40	dB
Polarization mode dispersion	PMD	<0.3	ps
Polarization dependent gain	PDG	<0.3	dB

(1) Input Power = 0 dBm

(2) Input Power = -30 dBm at 1545 nm

Electric & Environmental Characteristics

Parameter	Typical Value
Power supply voltage	+5 V
Interface	RS232
Alarm	TTL
Operating temperature	- 10 ~ 60 °C
Storage temperature	- 40 ~ 85 °C
Storage humidity	5 ~ 90 % R.H
Power consumption*	7.3 W

*At maximum output power, at 25 °C

Ordering Information

OFA - XC2 - XX₁XX₂

$\begin{cases} T : \text{Digital} \\ C : \text{Analog (CATV)} \end{cases}$
 $\begin{cases} XX_1 : \text{Max. Output Power (dBm)} \\ XX_2 : \text{AP(APC), AG(AGC), AC(ACC)} \end{cases}$

LiComm Co., Ltd.

Address

109, Baekja-ro Idong-myeon, Cheoin-gu, Yongin-Si,
Gyeonggi-Do, 17126, Korea

Tel: +82-31-323-1926, 1936 Fax: +82-31-323-2447

E-mail: sale@licomm.com Website : www.licomm.com