Optical Fiber Amplifier

Standard EDFA **OFA-TC3 Series**

The LiComm Standard EDFA OFA-TC3 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-TC3 series provides very stable output power up to 25 dBm and noise figure of less than 5 dB in C-band over wide operating temperature range. Compact size (200 x 120 x 30 mm), combined with extremely low power consumption, allows the OFA-TC3 series to be highly suitable for applications of power equalization or pre-emphasis in very crowded telecom and CATV transmission systems.

Features

- ■Compact size (200 x 120 x 30 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 25 dBm
- ■Wide input dynamic range
- ■Low noise figure
- ■APC (Automatic Power Control) or AGC (Automatic Gain Control)
- ■Control & monitor by RS232
- ■LVTTL 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

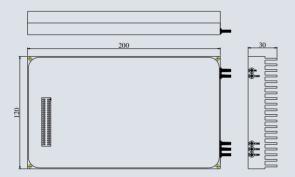








Mechanical Dimension (200 X 120 X 30 mm)



Optical Fiber Amplifier

Standard EDFA

Optical Characteristics

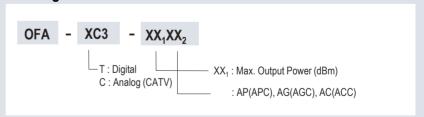
Parameter	Symbol	OFA-TC3	Unit
Signal wavelength range	λ	1528 ~ 1563	nm
Input power	P_{IN}	-30~0	dBm
Saturation Output power ⁽¹⁾	P _{OUT}	25	dBm
Small signal gain ⁽²⁾	G	40	dB
Noise figure	NF	Тур. 5	dB
Optical isolation	ISO	>30	dB
Return loss	RL	>40	dB
Polarization mode dispersion	PMD	<0.3	ps
Polarization dependent gain	PDG	<0.3	dB

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*	12.6 W

^{*}At maximum output power, at 25 °C

Ordering Information



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: sales@licomm.com Website: www.licomm.com

⁽¹⁾ Input Power = 0 dBm (2) Input Power = -30 dBm at 1545 nm