Optical Fiber Amplifier L-band UNCOOLED EDFA

OFA-TLH Series

The LiComm uncooled EDFA OFA-TLH series is a full-functioning L-band EDFA module with control circuitry packaged inside. It is designed for a single wavelength applications in fiber optic communications system in core networks, access networks, or CATV networks. The OFA-TLH series provides very stable output power up to 13dBm and noise figure of less than 6dB in L-band over wide operating temperature range. Ultra compact size (70 x 45 x 15mm) for L-band, combined with extremely low power consumption, allows the OFA-TLH series to be highly suitable for applications of power equalization or pre-emphasis in densely packaged telecom and CATV transmission systems.



Features

- ■Very compact size (70 x 45 x 15mm) for L-band
- ■Uncooled 980nm pump laser module
- Extremely low power consumption over wide operating temperature range
- **EDFA** module including micro process control circuit
- ■High output power up to 13dBm
- Multiple package sizes
- ■Low noise figure
- •APC (Automatic Power Control) with ALS (Automatic Laser Shutdown)
- ■Control & monitoring by RS232
- ■LVTTL Alarm
- ■Single + 3.3V power supply

Applications

- 2.5G/10G/40G Channel Amplifier
- Narrow band amplification in C-band
- Power equalization and Pre-emphasis Amplifier for DWDM Metro System
- ■Signal loss compensation in switch matrix
- ■SONET/SDH system
- ■OADM access networks
- ■CATV System







Optical Fiber Amplifier

UNCOOLED EDFA

Optical Characteristics

- Генева Стана Ста				
Parameter	Symbol	OFA-TLH-13AP	Unit	
Signal wavelength range	λ	1573 ~ 1608	nm	
Input power	P _{IN}	-30~0	dBm	
Saturation Output power(1)	P _{out}	13	dBm	
Small signal gain(2)	G	30	dB	
Noise figure	NF	Typ.6.0	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 = 0dBm

(2)Input Power = -30dBm at 1590nm

Electric & Environmental Characteristics

Parameter	Typical Value
Power supply voltage	+3.3V
Interface	RS232
Alarm	LVTTL
Operating case temperature	0 ~ 70 ℃
Storage temperature	- 40 ~ 85 ℃
Storage humidity	5 ~ 85% R.H
Power consumption*	2.0W

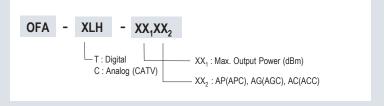
^{*} in normal input power and full temperature range

Control and Monitoring Functions

Parameter	Typical Value
Control Scheme	APC with ALS and FLS*
Monitor	IPM/OPM / LD-Bias / Case-Temp
Alarm	LOP / LD-Bias / Case-Temp

* ALS: Automatic Laser Shutdown

Ordering Information



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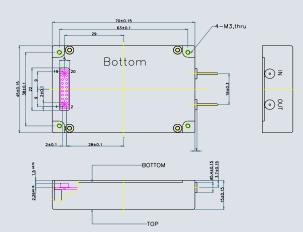
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^{**} FLS: Forced Laser Shutdown