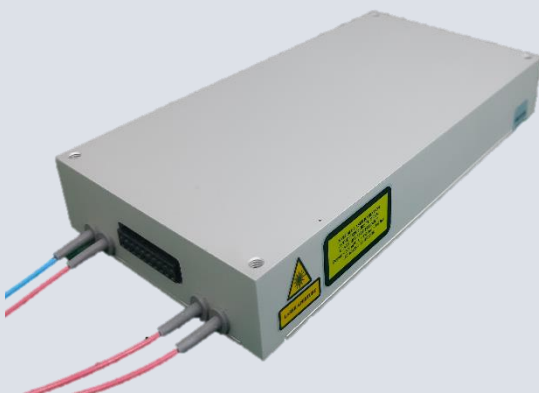


Optical Fiber Amplifier

Standard EDFA

OFA-CC2 Series



The LiComm Standard EDFA OFA-CC2 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-CC2 series provides very stable output power up to 24.5 dBm and noise figure of less than 5 dB in C-band over wide operating temperature range. Compact size (130 x 70 x 18 mm), combined with extremely low power consumption, allows the OFA-CC2 series to be highly suitable for applications of power equalization or pre-emphasis in very crowded telecom and CATV transmission systems.

Features

- Compact size (130 x 70 x 18 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 24.5 dBm
- Wide input dynamic range
- Low noise figure
- APC (Automatic Power Control) or AGC (Automatic Gain Control)
- Control & monitor by RS232
- LVTTTL Alarm
- Single + 3.3 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

Optical Fiber Amplifier

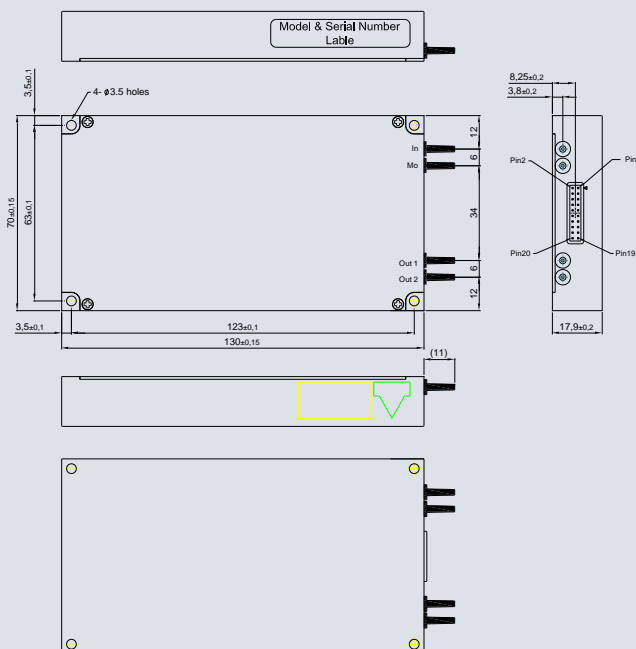
Standard EDFA

Optical Characteristics

Parameter	Symbol	OFA-CC2-2501	Unit
Signal wavelength range	λ	1528 ~ 1563	nm
Input power	P_{IN}	-30~0	dBm
Saturation Output power ⁽¹⁾	P_{OUT}	24.5	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

Mechanical Dimension (150 X 70 X 18 mm)



Electric & Environmental Characteristics

Parameter	Typical Value
Power supply voltage	+3.3V
Interface	RS232
Alarm	LVTTTL
Operating temperature	0 ~ 55 °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 - CC2 - XX₁XX₂

XX₁ : Max. Output Power per Port (dBm)

XX₂ : The number of ports

ex) 2102: 21dBm output power/port x 2ports

- TC2 - XX₁XX₂

XX₁ : Max. Output Power (dBm)

XX₂ : AP(APC), AG(AGC), AC(ACC)

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