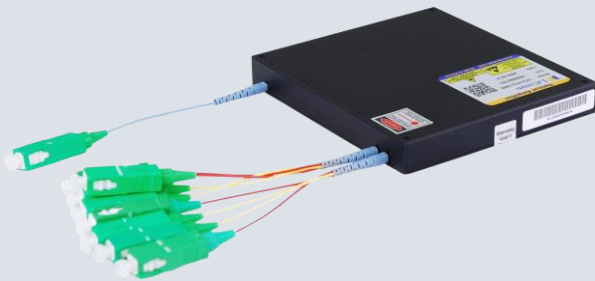


Optical Fiber Amplifier

Mini High Power EYDFA Module OHA-CC1 Series

The LiComm high power EYDFA module, OHA-CC1 series, is the densely integrated, compact size, ultra high power optical fiber amplifier. The state of the art technology of clad pumping in Er/Yb co-doped amplifying fiber is applied to the optical module for cost sensitive customers with limited space. Also multiple output ports, such as 8, or 16ports, are available to meet various user requirements. The OHA-CC1 series is most suitable for the high quality CATV service application with a number of branching points or the PON (Passive Optical Networks) where high power optical signal is broadcasted through high-count splitters. The OHA-CC1 series provides very stable total output power up to 28 dBm and noise figure of less than 6dB in C-band over wide operating temperature range. Packaged in a very compact package (100 x 90 x 19.5 mm), OHA-CC1 series also includes control circuitry inside and operates with extremely low power consumption.



Features

- Including electric control circuits
- CATV-network-proven low noise figure and superb non-linearity performance
- High output power up to 30dBm
- Wide input dynamic range
- Low noise figure
- Easy operation
- APC (Automatic Power Control)
- Control & monitor with R232
- DC 3.3 volt power supply

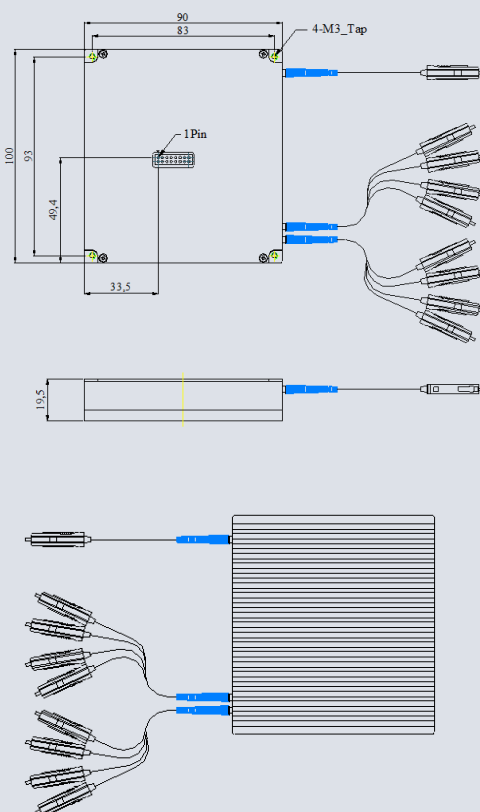
Applications

- PON (passive optical networks) and FTTH
- CATV network
 - Power booster, Line Amp
 - Distribution, Multi-branching

Optical Fiber Amplifier

High Power EYDFA

Mechanical Dimension (WxLxH = 90x100x19.5[mm])



Optical Characteristics

Parameter	Symbol	OHA-CC1-2008	Unit
Signal wavelength range	λ	1545 ~ 1562	nm
Normal Input power	P_{IN}	0	dBm
Max. Total Output power	P_{OUT}	20dBm/port at 8ports	dBm
Small signal gain ⁽¹⁾	G	30	dB
Noise figure ⁽²⁾	NF	<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 = -30 dBm at 1550 nm

(2) Input Power = 0 dBm at 1550 nm

Electric & Environmental Characteristics

Parameter	Typical Value
Power supply voltage	3.3 V
Interface	RS232
Operating temperature	-10 ~ 55 °C
Storage temperature	-40 ~ 85 °C
Storage humidity	5 ~ 85 % R.H

Ordering Information

OHA - CC1 - XX₁XX₂

XX₁ : Output Power
 XX₂ : Output port numbers

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