

## Optical Fiber Amplifier

# High Power EYDFA

## OHA-CCD-Series

The LiComm High Power EDFA OHA-CCD-Series is LiComm optical amplifier module housed in 19" in shelf with power supply inside. Cladding pump technology uses erbium/ytterbium fiber optic assemblies to produce cost effective. The OHA-CCD-Series is suitable for CATV application or PON (Passive Optical Networks) that requires stand-alone operation. Also multiple output ports, such as 8, 16 ports, are available in the OHA-CCD. Front panel of OHA-CCD-Series provides a LCD panel for amplifier operation ,monitoring and control buttons for power on/off. RS232 and SNMP interface enable remote monitoring and control from PC. Either AC 100 ~ 240 or DC -48 volt are available for power supply.

### Features

- Including electric control circuit
- CATV-network-proven low noise figure and superb non-linearity performance
- High output power up to 37dBm
- Wide input dynamic range
- Low noise figure
- Easy operation
- APC (Automatic Power Control) or AGC (Automatic Gain Control)
- Control & monitor with RS232, SNMP
- Either AV100 ~ 240volt(standard) or DC -48 volt power supply

### Applications

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



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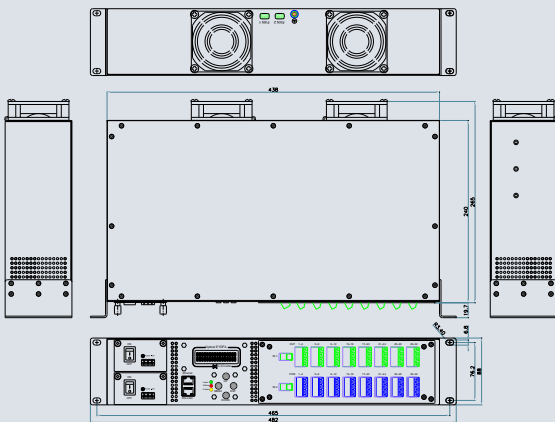
### Optical Characteristics

Parameter	Symbol	OHA-CCD	Unit
Signal wavelength range	$\lambda$	1545 ~ 1562	nm
Input power	$P_{IN}$	0	dBm
Output power	$P_{OUT}$	<37	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 = -30dBm at 1550nm

(2) Input Power = 0dBm at 1550nm

### Mechanical Dimension (482X 265 X 88mm)



### Electric & Environmental Characteristics

Parameter	Typical Value
Power supply voltage	AC 100 ~ 240V or DC -48V
Interface	RS232, SNMP
Operating temperature	0 ~ 50°C
Storage temperature	- 40 ~ 85°C
Storage humidity	10 ~ 85% R.H

\*At maximum output power, at 25°C

### Ordering Information

OHA - CCD - XX<sub>1</sub>XX<sub>2</sub> - X<sub>3</sub>X<sub>4</sub>X<sub>5</sub>X<sub>6</sub>

XX<sub>1</sub> : Output Power  
 XX<sub>2</sub> : Output port numbers

X<sub>3</sub> (PSU Power) : A(AC Free), D(DC -48V), C(AC and DC)

X<sub>4</sub> (PSU Type) : H(Dual Hot Swap), D(Dual Fixed), S(Single Replaceable), R(Single Fixed)

X<sub>5</sub> (Management Interface) : S(SNMP+RS-232), R(RS-232)

X<sub>6</sub> (Opt. Connector Position) : F(Front), R(Rear)

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