

Optical High Power Fiber Amplifier

Pulsed EYDFA

OHA-NC2 Series



The LiComm high power pulsed EYDFA, OHA-NC2 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. The high Power pulsed EYDFA provides very stable output pulse power up to average 2W and suppressed noise in C-band over wide operating temperature range. Packaged in a very compact package (65 x 160 x 20 mm), OHA-NC2 series also includes control circuitry inside and operates with extremely low power consumption.

Features

- Compact size 65 x 160 x 20mm
- Uncooled 980nm pump laser module
- Low power consumption over wide operating temperature range
- EYDFA module including micro process control circuit
- High average output power up to 2000mW
- Low noise figure
- ACC (Automatic Current Control)
- Control & monitoring by R232
- TTL Alarm
- Single + 5V power supply

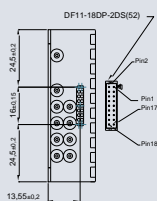
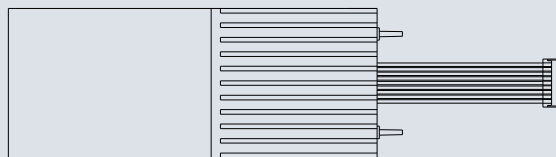
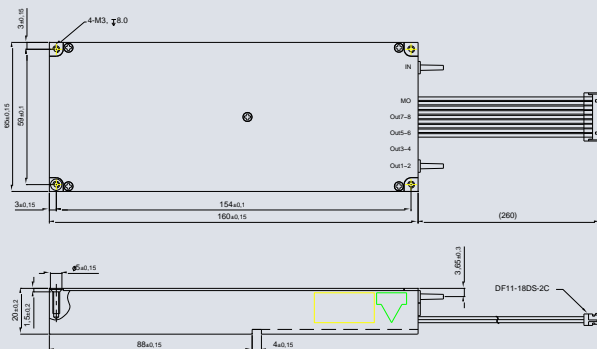
Applications

- LIDAR System
- Range Finder
- Telemetry System
- Fiber Sensor System
- 3D Scanning
- OTDR System

Optical Fiber Amplifier

High Power EYDFA

Mechanical Dimension (WxLxH = 65x160x20[mm])



Optical Characteristics

Parameter	Specifications	Unit
Operating Wavelength Range (λ)	1545 ~ 1565	nm
Input Pulse Width (FWHM)	10 to 200	nsec
Input Pulse Repetition Rate (FREQ)	10 to 1M	Hz
Avg. Output Power (P_{Out-CW})	Max. 2000	mW
Peak Output Power ($P_{Out-Peak}$)	Max. 15	kW
Peak Pulse Energy ($E_{Out-Pulse}$)	Max. 100	uJ
Optical Isolation (ISO)	>30	dB
Return Loss (RL)	>40	dB
Output Polarization (POL)	Random	dB
Polarization Mode Dispersion (PMD)	<0.5	ps
Polarization Dependent Gain (PDG)	<0.4	dB
Output Connector Type	SC or FC/APC (Optional)	-

Electric & Environmental Characteristics

Parameter	Specifications	Unit
Power Supply Voltage	+5.0	V
Interface	RS232	-
Alarm	TTL	-
Operating Case Temperature	-5 ~ 65	°C
Storage Temperature	-40 ~ 85	°C
Storage Humidity	5 ~ 90% R.H	-
Power Consumption*	22	W
Mechanical Size (Diameter x Height)	65 x 160 x 20 mm	mm

*At maximum output power, at 25°C

Ordering Information

OHA - NC2 - XX₁XX₂

XX₁ : Output Power
 XX₂ : Output port numbers

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