Optical Fiber Amplifier

Pulsed EDFA

OFA-NCx-Series

The LiComm **Pulsed EDFA** series is full-functioning EDFA module with micro control circuit inside. It is designed for a single wavelength and pulsed signal input. The **Pulsed EDFA** series provides very stable output pulse power up to average 200mW and suppressed noise in C-band over wide operating temperature range. The compact size with extremely low power consumption, allows the **Pulsed EDFA** series to be highly suitable for applications of LIDAR, LRF, Fiber Sensor System, and OTDR application.

Features

- **Compact size with Circular Shape or Rectangular Shape**
- 980nm pump laser module
- Extremely low power consumption over wide operating temperature range
- **EDFA module including micro process control circuit**
- High average output power up to 200mW
- Low noise figure
- ACC (Automatic Current Control), APC(Automatic Power Control) or AGC (Automatic Gain Control)
- Control & monitoring by R232
- LVTTL Alarm
- Single + 3.3V power supply

Applications

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

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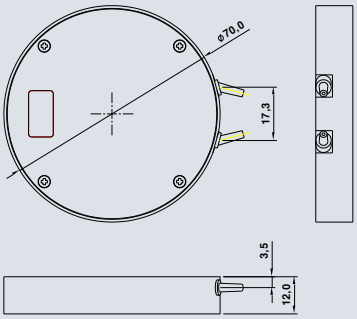
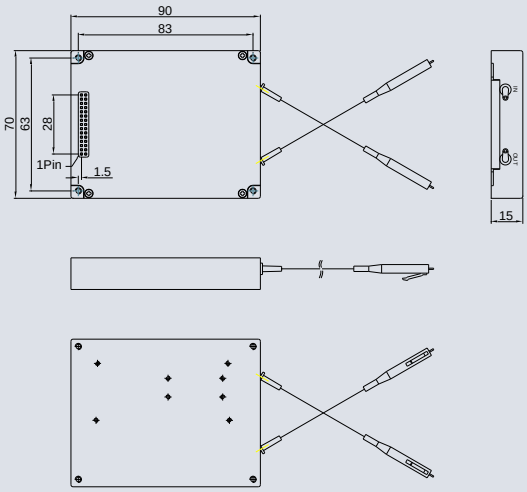
Mechanical Dimension

OFA-NCx-Series (Diameter x Height = Φ70 X 12mm)



(90 X 70 X 15mm)



Optical Characteristics

Parameter	Specifications		Unit
	Φ70 x 12mm*	Φ90 x 15mm**	
Operating Wavelength Range (λ)	1530 ~ 1562		nm
Input Pulse Width (FWHM)	0.5 to 200		nsec
Input Pulse Repetition Rate (FREQ)	10 to 1M		Hz
Avg. Output Power (P_{Out-CW})	Max. 30	Max. 200	mW
Peak Output Power ($P_{Out-Peak}$)	Max. 0.4	Max. 2.7	kW
Peak Pulse Energy ($E_{Out-Pulse}$)	Max. 2.7	Max. 18	uJ
Optical Isolation (ISO)	>30		dB
Return Loss (RL)	>40		dB
Output Polarization (POL)	Random		dB
Polarization Mode Dispersion (PMD)	<0.3		ps
Polarization Dependent Gain (PDG)	<0.3		dB
Output Connector Type	SC or FC/APC (Optional)		-

* Correspond to Half-MSA for rectangular Type (70x45x12mm)
** Correspond to MSA for rectangular Type (90x70x15mm)

Electric & Environmental Characteristics

Parameter	Specifications	Unit
Power Supply Voltage	+3.3	V
Interface	RS232	-
Alarm	LVTTL	-
Operating Case Temperature	-5 ~ 75	℃
Storage Temperature	- 40 ~ 85	℃
Storage Humidity	5 ~ 90% R.H	-
Power Consumption*	1.2 / 4.0	W
Mechanical Size (Diameter x Height)	Φ70 X 12** / Φ90 x 15mm***	mm

*At maximum output power, at 25℃
** Correspond to Half-MSA for rectangular Type (70x45x12mm)
*** Correspond to MSA for rectangular Type (90x70x15mm)

Ordering Information

OFA - NCx$_1$ - xx$_2$AC

- XX_2 : Max. CW Output Power (dBm)
- C: Circular Type, A: MSA, H: Half-MSA

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