

Optical Fiber Amplifier **METRO EDFA** **OFA-WL2 Series**



The LiComm OFA-WL2 series is designed for use in high-performance and wide bandwidth DWDM or CWDM system of access networks and metropolitan networks. The OFA-WL2 offers high saturated output power, wide flat gain range, high gain, low noise figure, and AGC (Automatic gain Control) features. Excellent transient suppression capability of the OFA-WL2 series, developed by LiComm's EDFA control circuit experts, provides sub milli second over-shoot and under-shoot gain control in order to prevent degradation of transmission quality in OADMs (Optical Add/Drop Multiplexers). This feature allows great flexibility to system engineers in designing WDM or OADM systems in metro or core networks. DSP (Digital Signal Processor) controlled circuitry facilitates convenient monitoring and controlling of various EDFA characteristics, such as input power, output power, pump LD bias, temperature, and so on. In addition, OFA-WL2 reliability test results assure an excellent long-term EDFA performance needed in most of network applications.

Features

- Fast transient suppression
- Integrated electric control circuit
- High output power up to 17dBm
- Wide flat wavelength range and excellent gain flatness
- Wide input dynamic range
- Low noise figure
- Input/Output optical power monitoring (optional)
- Built-in supervisory device (optional)
- APC (Automatic Power Control) or AGC (Automatic Gain Control)
- Convenient system interface (RS232 or Parallel)
- Single +5V power supply

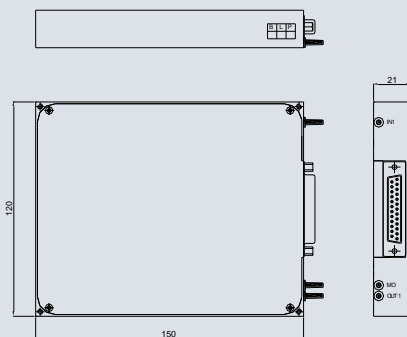
Applications

- 2.5G DWDM OADM & long haul networks
 - Booster, In-line, Pre-Amp.
- 10G DWDM OADM & long haul networks
 - Booster, In-line, Pre-Amp.
- OADM access network
- LANs and MANs

Optical Fiber Amplifier

METRO EDFA

Mechanical Dimension (150 X 120 X 21mm)



Optical Characteristics

Parameter	Symbol	OFA-WL2	Unit
Signal wavelength range	λ	1571 ~ 1604	nm
Saturated output power	P_{OUT}	<20	dBm
Signal gain	G	23	dB
Noise figure (1)	NF	<5.5	dB
Gain flatness	ΔG	<1.5	dB
Input dynamic range	P_{ID}	16	dB
Channel gain variation	G_C	-0.5 ~ +0.5	dB
Transient suppression(2)	T_G	??	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 = -4dBm/tot, P_{OUT} = 20dBm

(2) 3dB Add/Drop at output power of 20dBm

Electric & Environmental Characteristics

Parameter	Typical Value
Power supply voltage	+5V
Interface	RS232, Parallel
Operating temperature	-5 ~ 66 °C
Storage temperature	-40 ~ 85 °C
Storage humidity	5 ~ 90% R.H
Power consumption	7.3W

*Output power = 20dBm, at 25 °C

Ordering Information

OFA - WL2 - XX₁XX₂

XX_1 : Saturated Output Power
 XX_2 : Control Method
 - AG: Automatic Gain Control
 - VG: Variable Gain Control

LiComm Co., Ltd.

Korea Head Office

908-1, Seo-Ri, Idong-Myeon, Yongin-Si, Gyeonggi-Do,
 449-834, S.Korea
 Tel: +82-31-323-1926,1936 Fax: +82-31-323-2447
 E-mail: sale@licomm.com Website : www.licomm.com

Korea Factory

708, Seo-Ri, Idong-Myeon, Yongin-Si, Gyeonggi-Do,
 449-834, S.Korea

U.S.A. Branch Office

206 Woodcliff Blvd, Morganville, USA,
 Tel: +1-732-526-7019