

# FIBER LINE+ Fiber Amplifier LA xx E



Product information



## Description

The LA xx E series is a family of high performance CATV erbium doped fiber amplifiers (EDFA) or erbium/ytterbium doped fiber amplifiers (EYDFA). Usage of the latest DSP technology at the core of electrical control circuitry results in superior output power stability and exceptionally low noise figures demanded by CATV applications, especially in Fiber-to-the-X networks.

## Applications:

- CATV Supertrunking
- Redundant Ring Architectures
- High Power Distribution Networks
- FTTx networks
- High Saturation Output Power up to 27 dBm in 1 RU or 35 dBm in 2 RU
- Dual Power Supplies, Redundant & Hot Swappable – AC/DC

... a link to the future



# FIBER LINE+

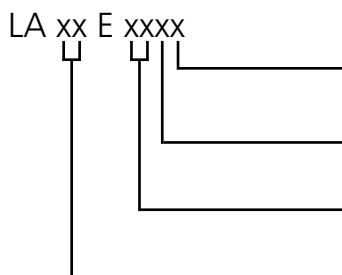
## Fiber Amplifier LA xx E

- Front Panel Optical Input & Output Monitor ports
- SNMPv2 Control Interface
- Low Noise Figure for CATV
- Wide Input Dynamic Range - Very Stable Output Power Over a Wide Operating Temperature Range
- Optional Automatic Gain Control or Constant Output Power Operation
- Optional Gain Flatness Specifications
- Automatic power control and/or automatic gain control modes
- Port count, optical power, and connector style options

Monitors and Alarms					
	Loss of input signal Loss of output power Pump laser diode bias current Pump LD Temperature Case Temperature Redundant Power Supplies Redundant Fans				
Electrical Characteristics					
PROPERTY	SYMBOL	MIN	TYP	MAX	UNIT
AC Power Supply Voltage	V <sub>AC</sub>	85		265	V <sub>AC</sub>
DC Power Supply Voltage	V <sub>DC</sub>	-36	-48	-72	V <sub>DC</sub>
Power Consumption Note 1	P <sub>TOT</sub>	10		80	W
General Optical Characteristics					
PROPERTY	SYMBOL	MIN	TYP	MAX	UNIT
Wavelength Range Note 1	V <sub>AC</sub>	1528/1545	1550	1562	nm
Input Power	P <sub>IN</sub>	-10	0	12	dBm
Total Output Power Options Note 1	P <sub>OUT</sub>	14/30		27/35	dBm
Output Power Delta to Nominal Note 2	P <sub>OUT</sub>	-0.5		0.5	dB
Output Port Count Options (SC) Note 1	-	1		10/64	
Noise Figure Notes 1, 3	NF			5.0/6.0	dB
Optical Isolation	ISO	30			dB
Input Power Alarm	LOS	-12	-11	-10	dBm
Input Monitor Loss	I <sub>MON</sub>	22	23	24	dB
Output Monitor Loss	O <sub>MON</sub>	19	20	21	dB
Absolute Maximum Ratings					
PROPERTY	SYMBOL	MIN	TYP	MAX	UNIT
Operating Temperature Range	TO	0		50	°C
Storage temperature Range	TS	-40		85	°C
Relative Humidity	H	0		95	%
Note 1: Varies by model type Note 2: Valid for 1-20 ports. 32 ports and 64 ports have larger deltas. Note 3: Test Condition with Input Power = 0 dBm (@ 1550nm)					

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### Order information



### Power Supply:

- 1 – AC primary, no secondary
- 2 – DC primary, no secondary
- 3 – AC primary, AC secondary
- 4 – AC primary, DC secondary
- 5 – DC primary, DC secondary

### Output Location:

- 0 – Front / 1 – Rear

### Number of Output Ports:

e.g. 01, 02, 04, 08, 16, 32, 64

### Output Power per Port:

e.g. 11, 14, 16, 17, 20, 26, 27

Not all configurations are possible. Please contact your WISI sales representative for assistance.

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