



# monics

AMONICS LTD.



ISO 9001 : 2008  
Certificate No.: CC 5346

L-Band and Extended L-Band DWDM EDFA

## Applications

- DWDM Applications
- SONET/SDH Systems
- Optical Communication
- Fiber Optic Sensing



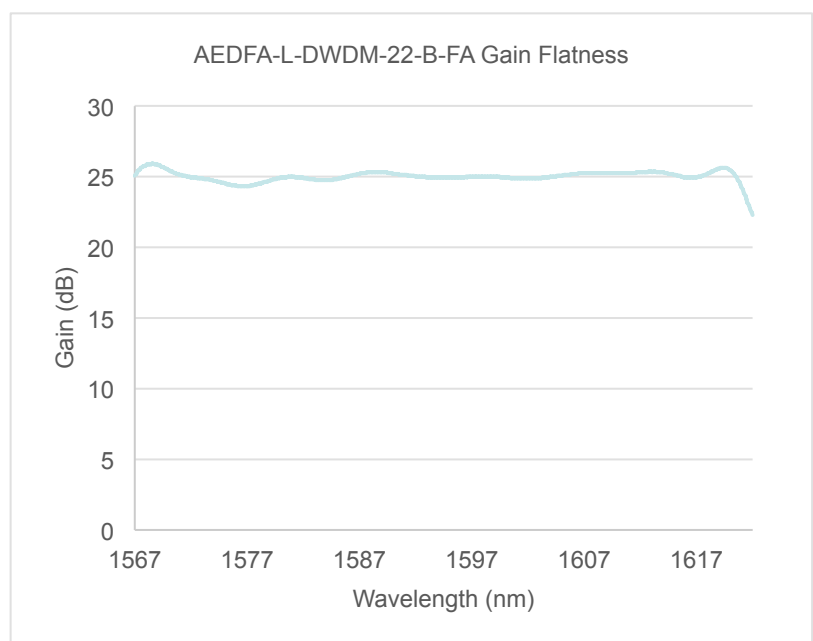
## Description

L-band and Extended L-band DWDM Erbium-doped Fiber Amplifiers (EDFA) are among the Amonics' specialist products. They are designed with high-power pump laser and high-stability pump combiners, renowned for robustness in high power boosting. The EDFAs feature high output power, high gain with very low noise, and they can be customized to accommodate a wide range of input signal levels. They are thus ideal for various demanding applications.

The turnkey microprocessor-controlled EDFAs provide illustrative alarms and status indicators. An integrated RS232 computer interface enables easy control, diagnostic functions and data acquisition. The EDFAs are available in both benchtop and rackmount casings.

## Key Features

- Turnkey device
- RS232/Ethernet computer interface
- High output power
- High gain
- Low noise figure
- Highly reliable and durable



The product is manufactured under a HKQAA ISO 9001 certified quality management system  
The ISO 9001:2008 certification applies to the Hong Kong production site only

**Specifications**

	AEDFA-L-DWDM			AEDFA-L-EX1-DWDM			AEDFA-L-EX2-DWDM			Remark
Saturation Output Power	+22dBm			+22dBm			+22dBm			-
Wavelength	1570 - 1603nm			1570 - 1610nm			1570 - 1620nm			-
Gain (dB)	21	25	30	21	25	30	21	25	-	Input Power
										+1 -3 -8
Noise Figure (typ.)	6.0dB			6.0dB			6.5dB			
Gain Flatness (peak to peak)	Typ. 1.0dB, Max. 2.0dB			Typ. 1.0dB, Max. 2.0dB			Typ. 1.0dB, Max. 2.0dB			
Input Isolation	> 30dB									-
Output Isolation	> 30dB									-
Polarization Dependent Gain	Typ. 0.3dB, Max. 0.5dB									-
Control Mode	ACC, APC, AGC(optional)									-

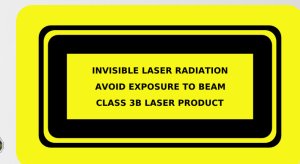
\* Other output power models are available upon request

**General Parameters**

Parameters	Unit	Specifications
Operation Temperature	°C	0 to +40
Storage Temperature	°C	-10 to +70
Power Supply	VAC	90 – 240, 47 – 63Hz
Dimensions	mm	Benchtop: 260(W) x 330(D) x 120(H) 1U Rackmount: 485(W) x 360(D) x 45(H) Other standard rackmount sizes are also available
Mechanical Safety Control	-	Key-lock switch, BNC interlock key
Optical Power Monitoring	-	Output power, Input power (optional)
Remote Control Port	-	DB-9 female (RS232), LabView control software included RJ-45 (TCP/IP Ethernet) (optional)
Protection	-	Pump laser (TEC) overheat
Optical Connector	-	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Fiber	-	SMF-28

**Option**

- Gain flattening filtering



**Ordering Information**

Product Code	AEDFA-L-bb-c-dd AEDFA-L-EXa-bb-c-dd	a : Extended wavelength range bb : Saturated output power in dBm c : B for Benchtop, R for 19" Rackmount dd: FA for FC/APC, FC for FC/UPC SA for SC/APC, SC for SC/UPC
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Amonics undertakes continuous and intensive product development to ensure its product performance at the highest technical standards. As a result, the specifications in this document are subject to change without notice.

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