



Applications

- SONET/SDH Systems
- LANs and MANs
- Fiber Optic Sensing
- CATV Networks
- Laboratory

Description

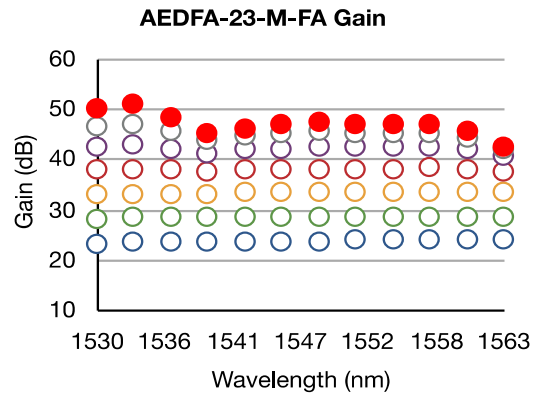
Amonics EDFA module, operated on a single +5V power supply, is an ideal building block for OEM system integration as it comes with the essential EDFA functions to serve various purposes and the interfaces ready for system integration.

Photodetection of output and/or input signal is included. Three different control modes, ACC, APC and AGC, are available to meet different requirements.

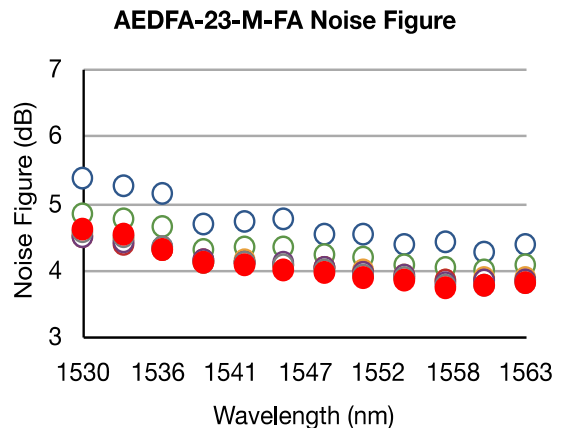
Erbium Doped Fiber Amplifier (EDFA) Module

Key Features

- Small foot print
- High output power
- High gain
- Wide operation range
- Single +5V power supply
- Highly reliable and durable



- 0dBm ○ -5dBm ○ -10dBm ○ -15dBm
- -20dBm ○ -25dBm ● -30dBm



- 0dBm ○ -5dBm ○ -10dBm ○ -15dBm
- -20dBm ○ -25dBm ● -30dBm

Specifications

	AEDFA -13	AEDFA -18	AEDFA -23
Saturation Output Power (at -3dBm input signal)	> +13dBm	> +18dBm	> +23dBm
Small-Signal Gain at 1550nm (at -30dBm input signal)	> 30dB	> 32dB	> 37dB
Noise Figure (typ.) (at -3dBm input signal)	5.0dB	5.5dB	6.0dB
Operating Wavelength	1528nm – 1563nm		
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	VDC	5.0 ± 0.1
Dimensions	mm	100(W) x 120(D) x 18(H) for AEDFA -13 120(W) x 200(D) x 25(H) for AEDFA -18 and AEDFA -23
Optical Power Monitoring	-	Output power, Input power (optional)
Electrical Connector Interface	-	14-pin MIL Socket for AEDFA -13 DB25 Connector for AEDFA -18, AEDFA -23
Protection	-	Pump laser (TEC) overheat
Optical Connector	-	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Fiber	-	Min. 0.5m long SMF-28

Option

- Gain flattening filtering



Ordering Information

Product Code	AEDFA-xx-M-zz	xx: Saturation output power in dBm zz: FA for FC/APC, FC for FC/UPC SA for SC/APC, SC for SC/UPC
--------------	---------------	--

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.

Amonics Limited, 14/F, Lee King Industrial Building, 12 Ng Fong Street, San Po Kong, Kowloon, Hong Kong
Beijing Amonics Co. Ltd. Room 902, Unit 1, No.99 Chaoyang North Road, Beijing China 100123

Email: contact@amonics.com Website: www.amonics.com

HK Tel: +852 2428 9723

HK Fax: +852 2428 9704

Beijing Tel: +86 10 84783386

Beijing Fax: +86 10 84783396