





ISO 9001 : 2008 Certificate No.: CC 5346

Applications

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



Description

CATV EDFAs inherit the reliable design of Amonics's optical amplifier technology. They exhibit high output power, high gain with very low noise. They are thus ideal for CATV applications. CATV EDFAs are available in rackmount or module.

The turnkey rackmount CATV EDFAs provide microprocessor controlled alarms and status indicators. An integrated RS232 computer interface enables easy control, diagnostic functions and data acquisition.

The CATV EDFA modules, operated on a single +5V power supply, are ideal building blocks for OEM systems integration of a wide range of applications as they come with the essential EDFA functions to serve various purposes and the interfaces ready for system integration.

Key Features

- · CATV field-proven low noise figure
- Small foot print
- High output power
- High gain
- Wide operation range
- · Highly reliable and durable



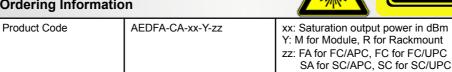
	AEDFA-CA-13	AEDFA-CA-18	AEDFA-CA-23	
Number of output power	1	1, 2	1, 2, 4	
Input Power	-6dBm to +6dBm	-6dBm to +6dBm	-6dBm to +6dBm	
Saturated Output Power	> +13dBm	> +18dBm	> +23dBm	
Noise Figure (typ.) (at 0dBm input signal)	4.5dB	5.0dB	5.5dB	
Operating Wavelength	1535nm – 1560nm			
Input Isolation	> 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	V	Rackmount: AC 90 – 240V, 47 – 63Hz Module: DC 5.0V ± 0.1V	
Dimensions	mm	Rackmount: 485(W) x 360(D) x 45(H) Module: 100(W) x 120(D) x 18(H) for AEDFA-CA-13 120(W) x 200(D) x 25(H) for AEDFA-CA-18 120(W) x 200(D) x 25(H) for AEDFA-CA-23	
Mechanical Safety Control (Rackmount only)	-	Key-lock switch, BNC interlock key	
Optical Power Monitoring	-	Output power, Input power (optional)	
Remote Control Port (Rackmount only)	-	DB-9 female (RS232), LabView control software included RJ-45 (TCP/IP Ethernet) (optional)	
Electrical Connector Interface (Module only)	-	14-pin IDC socket for AEDFA-CA-13 16-pin IDC socket for AEDFA-CA-18, AEDFA-CA-23	
Protection	-	Pump laser (TEC) overheat	
Optical Connector	-	FC/APC, FC/UPC, SC/APC, SC/UPC	
Optical Fiber	-	SMF-28 (min. 0.5m for Module)	

Ordering Information



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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