S-Band Bismuth-doped Fiber Amplifier (Multi-Channel)

Amonics
Specialist in Optical Amplifiers

1490nm - CW

Key Features

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

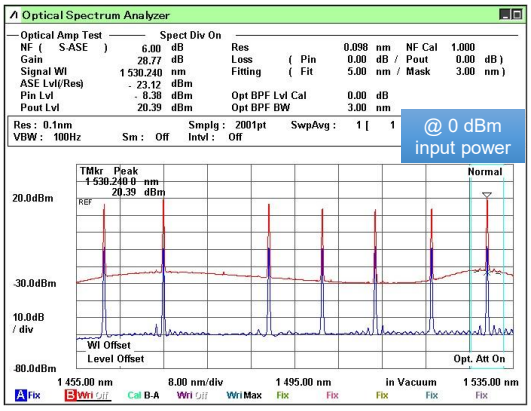


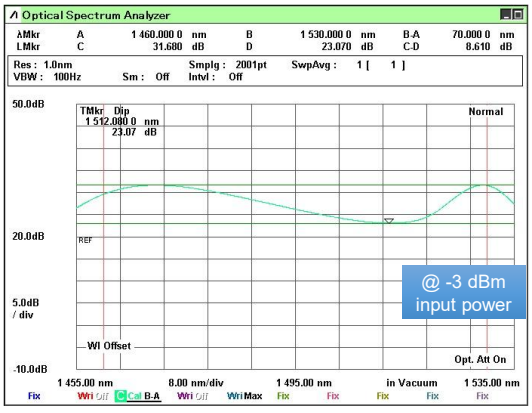
2U Rackmount Casing

Description

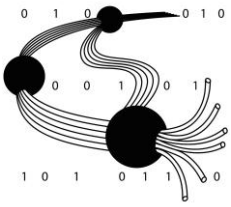
Amonics' S-Band Bismuth-doped fiber amplifier (BDFA) delivers high gain and low noise figure across the S-band. It expands the usable transmission bandwidth beyond the conventional C- and L-bands, enabling higher data capacity and longer transmission distances. The S-band BDFA is particularly valuable for DWDM networks and next-generation fiber systems.

The turnkey microprocessor-controlled BDFAs provide illustrative alarms and status indicators. An integrated RS232 computer interface enables easy control, diagnostic functions and data acquisition.





Application



- Datacom Network

ISO 9001 : 2015
Certificate No.: CC 5346

Our product is manufactured under a HKQAA ISO 9001 certified quality management system. The ISO 9001:2015 certification applies to the Hong Kong production site only.

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Specifications

Model	ABDFA-S-DWDM-23
Operating Wavelength	1460 nm to 1520 nm
Composite Input Power	-6 to 10 dBm
Composite Output Power @ 0 dBm composite input power	Min. 23 dBm
Noise Figure @ 0 dBm composite input power	Typ. 6.0 dB, Max. 6.5 dB
Gain Flatness	Typ. 8 dB, Max. 10 dB
Input / Output Isolation	Min. 30 dB
Control Mode	ACC

General Parameters

	Value
Operation Temperature	0 to +40 ˚C
Storage Temperature	-10 to +70 ˚C
Power Supply	90 – 240 VAC, 47 – 63 Hz
Dimensions	485(W) x 360(D) x 90(H) mm
Mechanical Safety Control	Key-lock switch, BNC interlock key
Optical Power Monitoring	Output power, Input power
Remote Control Port	DB-9 female (RS232), 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

Ordering Information

Product Code	ABDFA-S-DWDM-aa-b-cc	aa : Composite Output Power in dBm b : R for 19” Rackmount cc : 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.

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