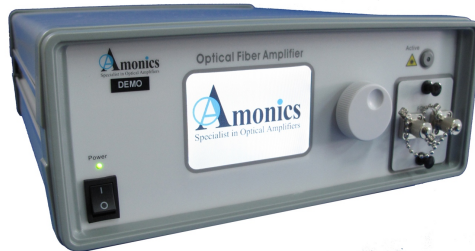




ISO 9001 : 2008  
Certificate No.: CC 5346



### Applications

- Booster and In-line Amplification in WDW Metro Network Systems
- Network Loss Compensation

### Description

Amonics SOA is a polarization maintaining optical amplifier with high fiber-to-fiber gain. It is designed for transmitter applications to increase optical launch power to compensate for the loss of other optical devices.

The benchtop version incorporates a user-friendly front panel housing a LCD monitor display, key switch, power control knob and optical connectors. RS232 computer interface is also equipped on the rear panel. 1MHz with 10ns pulse width intensity modulation is available.

The OEM module version is an ideal building block for OEM system integration, especially in optical communication network and CATV applications. It requires only a single +5V power supply.

### Key Features

- 1310nm and 1550nm wavelength coverage
- High fiber-to-fiber gain
- 1MHz with 10ns pulse width
- Modulation available
- PM Panda fiber input
- Good spectral stability
- Compact size
- Good performance cost ratio

### Ordering Information

Product Code	ASOA-xx-aa-y-zz	xx: Wavelength, 13 for 1300nm, 15 for 1550nm aa: fiber-to-fiber gain in dBm y: M for module, B for Benchtop zz: FA for FC/APC, FC for FC/UPC SA for SC/APC, SC for SC/UPC
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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



### SOA Specifications

	ASOA13-20	ASOA15-15	ASOA15-20
Operation Wavelength	1300nm to 1360nm	1530nm to 1565nm	1530nm to 1565nm
Saturated Output Power @ -3dB input	Typ. 13dBm, Min. 11dBm	Typ. 16dBm, Min. 14dBm	Typ. 16dBm, Min. 14dBm
Fiber-to-fiber Gain	Min. 20dB	Min. 15dB	Min. 20dB
Noise Figure @0dB	Typ. 12dB, Max. 14dB	Typ. 8dB, Max. 9dB	Typ. 8dB, Max. 9dB
Gain Ripple	Typ. 0.3, Max. 0.6	Typ. 0.25, Max. 0.5	Typ. 0.25, Max. 0.5
Input Optical Return Loss	Typ. -55		
Input / Output Isolation	Min. 30dB (standard), Min. 40dB (optional )		

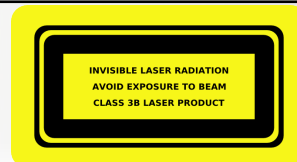
	ASOA91 - 20	ASOA98 - 20	ASOA06 - 20
Operation Wavelength	915nm + / -20nm	980nm + / -20nm	1040nm + / -20nm
Saturated Output Power @ -3dB input	Typ. 10dBm	Typ.11dBm	Typ. 10dBm
Fiber-to- fiber Gain	Typ. 20dB *	Typ. 20dB *	Typ. 20dB
Noise Figure	Typ. 6dB	Typ. 6dB	Typ. 8dB, Max. 9dB
Gain Ripple	Typ. 0.3, Max. 0.6	Typ. 0.3, Max. 0.6	Typ. 0.3, Max. 0.6

### General Parameters

Parameters	Unit	Benchtop	Module
Operation Temperature	°C	0 to 40	0 to +40
Storage Temperature	°C	-10 to 70	-10 to +70
Power Supply	V	90 – 240VAC, 47 – 63Hz	5.0VDC±0.1V
Dimensions	mm	260(W) x 330(D) x 120(H)	Customization on request
Electrical Connector	-	NA	14-pin MIL Socket
Protection	-	SOA over heat warning	SOA over current warning
LCD Display	-	SOA Current (mA)	NA
Control	-	Keylock switch, output power	NA
Computer Interface	-	RS232	NA
Optical Connector	-	FC/APC, FC/UPC, SC/APC, SC/UPC	
Input Fiber	-	PM Panda fiber	
Optical Fiber	-	SMF-28	

### Options

- Input and/or output isolator
- Intensity modulation



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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