EDFA Module

Applications

- OEM integration
- Seed laser amplification
- C-band channel amplification booster, Pre-amp
- Narrow band amplification in access network or CATV network
- DWDM metro network
- Short pulse amplification

Features

- Small footprint and ruggedized design
- Saturated output power 15 to 23 dBm
- Wavelength range 1530 to 1565 nm
- Input power range from -25 to 10 dBm
- Low noise figure
- Easy operation
- Long term stability

The Erbium-Doped Fiber Amplifier (AMP-M) module is a very compact optical amplifier using erbium-doped fiber as the gain medium. Calmar's AMP is optimized for short pulse amplification. It offers high gain and a low noise figure for long term dependable performance. Advanced engineering design and consistent manufacturing process ensure the highest quality standards for OEM volume production. Along with a portable design, it provides stable output power from 15 up to 23 dBm and a low noise figure. It offers either a polarization-maintaining (PM) or non-PM fiber output. The option of a polarization maintaining EDFA (AMP-PM) module ensures the amplified output is linearly polarized and eliminates unwanted polarization effects. Driven by a 5 VDC power supply, the module can be a stand-alone amplifier or an OEM unit for integration into end-user's application systems. An option for an L-band EDFA module is available.

Technical Specifications

Polarization Maintaining EDFA Module Series

Model Number	AMP-PM15M	AMP-PM18M	AMP-PM20M	AMP-PM23M
Output Power (dBm)*	15	18	20	23
Small Signal Gain (dB)	25	30	35	35
Input Power Range (dBm)	-25 ~ +10			
Wavelength (nm)**	1530 ~ 1565			
Noise Figure (dB)	<5.0	<5.5	<6.5	<6.5
Polarization Extinction Ratio (dB)	>20			
Operating Temp (°C)	0 ~ 50			
Operating Voltage (VDC)	4.5 ~ 5.5			
Dimensions (cm)	9.5(w)x12.7(d)x2.5(h)		20(w)x13(d)x4(h)	

* *Other output powers are available.*
** *L-band option is available.*

Non-Polarization Maintaining EDFA Module Series

Model Number	AMP-ST15M	AMP-ST18M	AMP-ST20M	AMP-ST23M
Output Power (dBm)*	15	18	20	23
Small Signal Gain (dB)	25	30	35	35
Input Power Range (dBm)	-25 ~ +10			
Wavelength (nm)**	1530 ~ 1565			
Noise Figure (dB)	<4.5	<5.0	<6.0	<6.0
Operating Temp (°C)	0 ~ 50			
Operating Voltage (VDC)	4.5 ~ 5.5			
Dimensions (cm)	9.5(w)x12.7(d)x2.5(h)		20(w)x13(d)x4(h)	

* *Other output powers are available.*
** *L-band option is available.*

Due to our continuous improvement program, specifications are subject to change without notice.

CALMAR LASER