

## EDFA Module: PM and SM

In addition to our EDFA bench top systems, Calmar Optcom has developed a series of small form factor erbium-doped fiber amplifier OEM modules in response to industrial requests of system integration. The module is driven by a +5VDC power supply. End users have full access and control of the pump laser current thus the EDFA output power.

The polarization maintaining EDFA module series ensures the output of the amplifier is linearly polarized, while providing up to 32 dB of amplification.

The wide range of EDFA module available from Calmar makes it possible to customize a solution that closely fits into end user's application system.



- Small signal gain 25 – 35 dB
- Saturated output power 15 – 23 dBm
- Wavelength range 1530 – 1565 nm
- Input power range -25 to + 10 dBm
- Low noise figures
- Polarization extinction ratio > 22 dB
- Easy configuration and operation
- Long term stability

### Technical Specifications – Polarization Maintaining EDFA Module Series

Model Number	AMP-PM15M	AMP-PM17M	AMP-PM20M	AMP-PM23M
Output Power (dBm)	15	17	20	23
Small Signal Gain (dB)	25	30	35	35
Input Power Range (dBm)	- 25 to +10			
Wavelength (nm)	1530 - 1565			
Noise Figure (dB)	< 5.0	< 5.5	< 6.5	< 6.5
Polarization Extinction (dB)	> 22			
Operating Voltage (V)	85 - 264 AC			
Dimensions (cm)	9.5(w) x 12.7(d) x 2.0(h)			

### Technical Specifications – Non-PM EDFA Modules Series

Model Number	AMP-ST15M	AMP-ST17M	AMP-ST20M	AMP-ST23M
Output Power (dBm)	15	17	20	23
Small Signal Gain (dB)	25	30	35	35
Input Power Range (dBm)	- 25 to +10			
Wavelength (nm)	1530 - 1565			
Noise Figure (dB)	< 4.5	< 5.0	< 6.0	< 6.0
Operating Voltage (V)	85 - 264 AC			
Dimensions (cm)	9.5(w) x 12.7(d) x 2.0(h)			

Specifications are subject to change without notice - 11/1/2005



The product complies with FDA radiation performance standards 21 CFR 1040.10 and 1040.11