

Specialty EDFA

In addition to our standard EDFA systems, Calmar Optcom's specialty EDFA does more than just amplify an optical signal.

The dispersion compensating EDFA (AMP-LD), also described as High-Speed EDFA due to its special usefulness for amplifying high-speed optical signal, minimizes signal distortion due to chromatic dispersion, while boosting the power of an optical signal power by up to 35 dB.

The polarization maintaining EDFA (AMT-PM) ensures the output of the amplifier is linearly polarized, while providing up to 32 dB amplification.

AMP-LD and AMT-PM are robust instruments that are easy to configure and operate.

AMP-LD and AMP-PM provide ideal ways to amplify optical pulses, eliminating penalty due to dispersion or polarization effects. With its wide range of amplifiers, Calmar can customize solutions that closely fit your test requirements.



- Small signal gain 25 – 35 dB
- Saturated output power up to 37 dBm
- Wavelength range 1530 – 1565 nm
- Input power range -25 to + 10 dBm
- Low noise figures
- Dispersion compensation 0.03 ps/nm
- Polarization extinction ratio > 22 dB
- Easy configuration and operation
- Long term stability

Technical Specifications – Dispersion Compensated EDFA series

Model Number	AMP-LD-15	AMP-LD-17	AMP-LD-20	AMP-LD-23
Output Power (dBm)	15	17	20	23
Small Signal Gain (dB)	25	30	35	35
Input Power Range (dBm)	- 25 to +10	- 25 to +10	- 25 to +10	- 25 to +10
Wavelength (nm)	1530 - 1565	1530 - 1565	1530 - 1565	1530 - 1560
Noise Figure (dB)	< 4.5	< 5.0	< 6.0	< 6.0
Chromatic Dispersion (ps/nm)	0.03	0.03	0.03	0.03
Operating Voltage (V)	85 - 264 AC	85 - 264 AC	85 - 264 AC	85 - 264 AC
Dimensions (cm)	37(w) x 16(d) x 25(h)	37(w) x 16(d) x 25(h)	37(w) x 16(d) x 25(h)	37(w) x 16(d) x 25(h)

Calmar's standard EDFA products are with model numbers AMP-ST-XX (XX=15, 17, 22, 23). Their specifications are the same as above except the chromatic dispersion parameter.

Technical Specifications – Polarization Maintaining EDFA series

Model Number	AMP-PM-18	AMP-PM-22	AMP-PM-30	AMP-PM-37
Output Power (dBm)	18	22	30	37
Input Power Range (dBm)	- 25 to +10	- 25 to +10	0 ~ 3	0 ~ 3
Wavelength (nm)	1530 - 1565	1530 - 1565	1540 - 1567	1540 - 1570
Noise Figure (dB)	< 5.5	< 6.0	< 6.0	< 6.0
Polarization Extinction (dB)	> 17	> 17	> 17	> 17
Operating Voltage (V)	85 - 264 AC	85 - 264 AC	85 - 264 AC	85 - 264 AC
Dimensions (cm)	33(w) x 25(d) x 12(h)	33(w) x 25(d) x 12(h)	33(w) x 25(d) x 12(h)	33(w) x 25(d) x 12(h)

Specifications are subject to change without notice - 2/28/2005