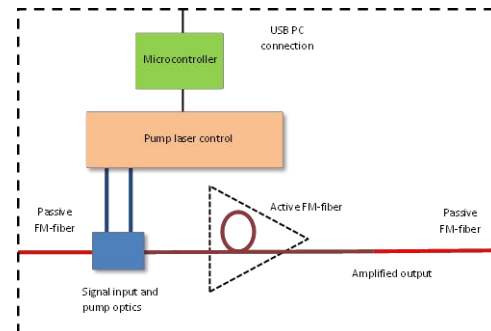


Cladding pumped Few-Mode EDFA

This cladding pumped few mode fiber Erbium doped amplifier has been developed within the EU supported MODE-GAP project. The amplifier covers the C-band and is available in a 6-mode (LP₀₁, LP_{11a}, LP_{11b}, LP_{21a}, LP_{21b}, LP₀₂) configuration. Low noise figure and high gain are achievable across the full set of modes. The differential modal gain is low and flat across the full optical C-band. A side-pumping scheme was adapted to realize a fully-fiberized integrated SDM amplifier

光学参数	Typical
波长范围	1535 – 1565nm (C-band)
输入光功率	-10 to 0 dBm per mode
空间模式数	6
小信号增益	> 20dB
输出光功率	17dBm
模式间增益差	< 4dB
噪音系数	< 7dB
输入/输出连接头	Bare fiber or FC/PC or FC/APC
常规信息	
封装尺寸	19" Rack Unit
工作电压	110-230 VAC
电流频率	50 to 60 Hz



Technical references:

1. Y. Jung et al., "Cladding pumped few-mode EDFA for mode division multiplexed transmission," *Opt. Express* 22, 29008-29013 (2014).
2. Y. Jung et al., "Reconfigurable modal gain control of a few-mode EDFA supporting 6 spatial modes," *IEEE Photon. Tech. Lett.* 26, 1100-1103 (2014).
3. Y. Jung et al., "Three mode Er³⁺ ring-doped fiber amplifier for mode-division multiplexed transmission," *Opt. Express* 21, 10383-10392 (2013).
4. Y. Jung et al., "First demonstration and detailed characterization of a multimode amplifier for space division multiplexed transmission systems." *Opt. Express* 19, B952-B957 (2011).