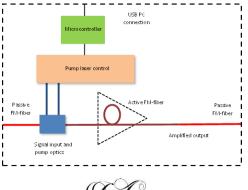


Cladding pumped Few-Mode EDFA

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 6mode (LP01, LP11a, LP11b, LP21a, LP21b, 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

Optical Parameters	ТурісаІ
Wavelength Range	1535 – 1565nm (C-band)
Input Power Range	-10 to 0 dBm per mode
Number of spatial modes	6
Small Signal Gain	> 20dB
Maximum Output Power	17dBm
Differential Modal Gain	< 4dB
Noise Figure	< 7dB
Input/ Output Connector	Bare fiber or FC/PC or FC/APC
General	
Control Electronics Dimensions	19" Rack Unit
Operating Voltage	110-230 VAC
Line Frequency	50 to 60 Hz









Technical references

- Y. Jung et al., "Cladding pumped few-mode EDFA for mode division multiplexed transmission," *Opt. Express* 22, 29008-29013 (2014). 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). Y. Jung et al., "Three mode Er3+ ring-doped fiber amplifier for mode-division multiplexed transmission," *Opt. Express* 21, 10383-10392 (2013). 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). 2. 3. 4.

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