

ALPhANOV offers solutions to build fully monolithic high performance fiber amplifier based on active microstructured fibers

Pump specification

- Number of pump fibers: 2 or 6
- Pump fibers core diameter: 105 μm N.A. 0.15 or 0.22
- Max pump power: 50 W
- Typical pump loss: <0.5 dB

Signal specification

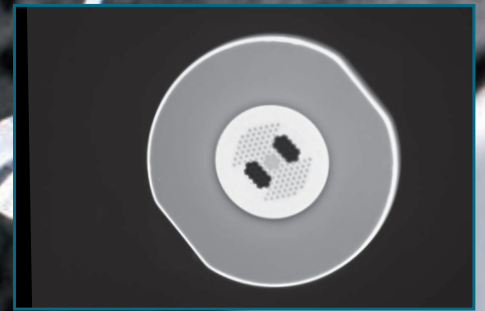
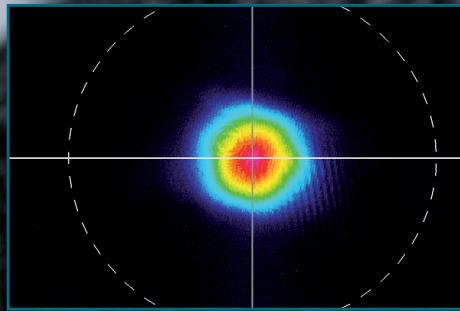
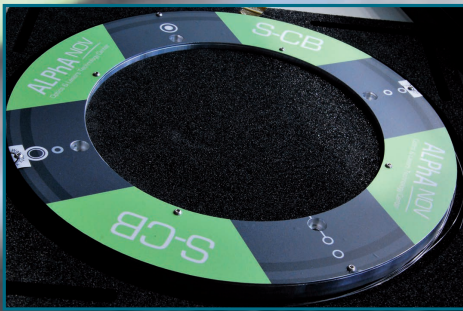
- Fiber type available: PM980, PLMA10, PLMA15
- Typical insertion loss: <1.5 dB
- Regime: Pulsed or CW

Output specification

- Fiber type: Ytterbium doped DC fiber
- Typical efficiency: >70%

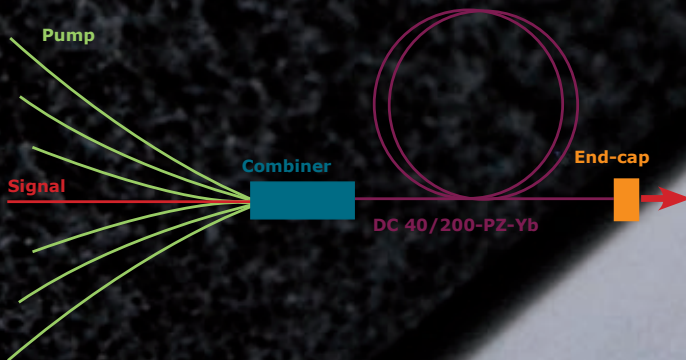
Option

- Fiber ending (connectors, end-caps...)
- Pump stripper
- Integration
- Possibility of contra-propagative waves with micro-optics



Example

- Fiber type : DC 40/200 fiber [other active fiber on request]
- Input fibers : 15 μm core
- Input signal ~2 W; 40 MHz; 100 ps
- Output signal : up to 200 W



Amplifier efficiency up to 200W