



HIGH-POWER FIBER AMPLIFIER

1 μm | 1.5 μm | 2 μm

NARROW LINENWIDTH AMPLIFIER

CW AND PULSED



HIGH-POWER FIBER AMPLIFIER



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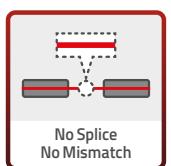
Tel 03-6262-3424 Fax 03-6800-5883

SPLICELESS LMA FIBER AMPLIFIER MODULES

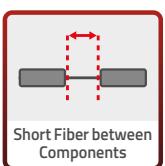
OUTSTANDING OPTICAL PERFORMANCE

Highlights

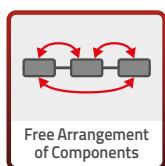
- | Rugged Spliceless Solutions With Outstanding Beam Quality
- | Components Are Integrated Into Active Fiber
- | No/Less Splices Between Fiber Components (Important For LMA Fibers)
- | Short Fiber Length Between Components (Low Fiber Nonlinearities)
- | Co/Counter-Pumping (Optimized Power Distribution Along The Active Fiber)



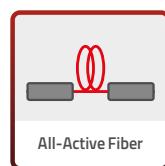
No Splice
No Mismatch



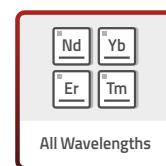
Short Fiber between
Components



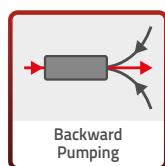
Free Arrangement
of Components



All-Active Fiber



All Wavelengths

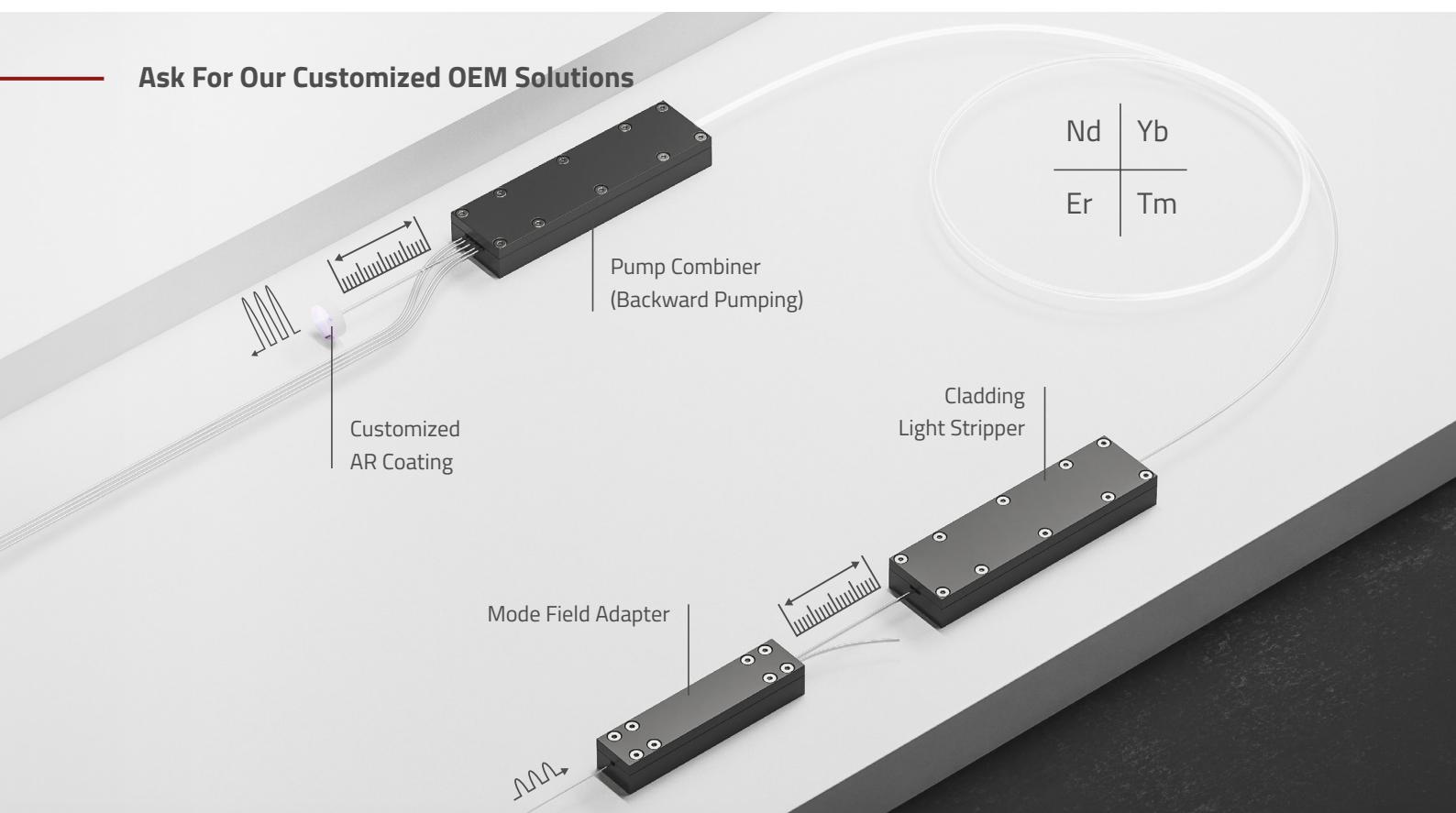


Backward
Pumping

Applications

- | Ultrashort Pulse Amplifier
- | Narrow Linewidth amplifier
- | Laser Communication
- | High Demands On Size and Robustness

Ask For Our Customized OEM Solutions



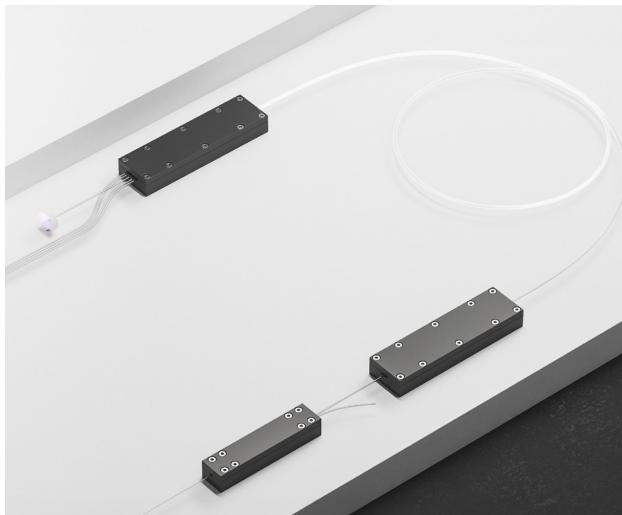
Are you interested in individualized ready-to-use fiber amplifier modules? FiberBridge Photonics offers co- and counter-propagation pumped fiber amplifier modules including all the necessary fiber components (excluding electronics and pump diodes). One of the major strengths of FiberBridge Photonics is the integration of all fiber components with the active fiber, resulting in no/less splices and

short fiber lengths between the fiber components. The fiber length as well as the arrangement of fiber components can be adapted to the customer's needs. Perfectly matched fiber components from one supplier ensures excellent optical performance, which is especially important for large mode area (LMA) fibers.

Fiber Amplifier Configuration

Option A

Active Fiber With Integrated Components



Option B

Fully Packaged Solution



Fiber Type - Spliceless Amplifier

Yb-DC-20/125

Yb-DC-PM-20/125

Yb-DC-25/250

Yb-DC-PM-25/250

Yb-DC-30/250

Yb-DC-PM-30/250

Pump Configuration

Forward / Backward

Forward / Backward

Forward / Backward

Forward / Backward

Forward

Forward

Wavelength

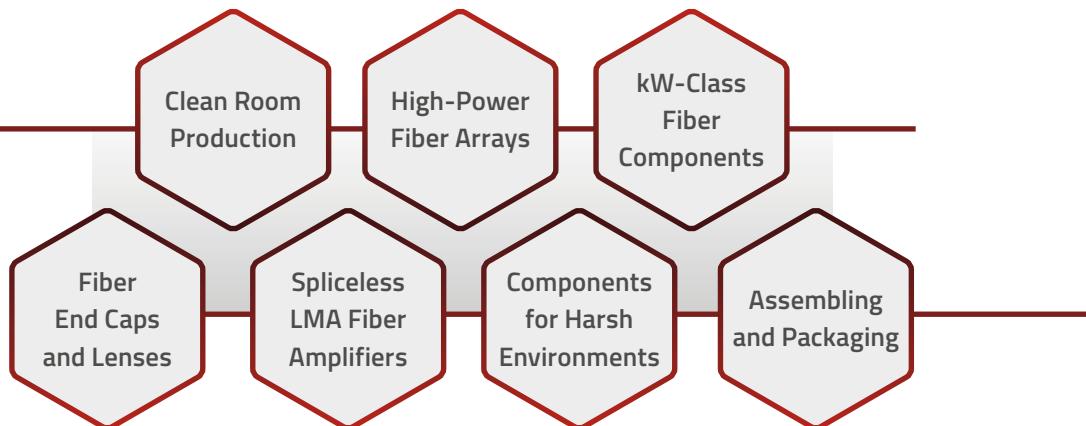
1030 nm, 1060 nm

FROM DEVELOPMENT TO SERIES PRODUCTION

FiberBridge Photonics provides high-performance optical fiber components for the material processing, life sciences, quantum technology and aerospace industries. Key products in our portfolio include high-power fiber components for lasers and amplifiers, such as pump combiners, fiber end caps, fiber end lenses, high-power capable fiber arrays, and spliceless LMA fiber amplifier modules.

All fiber components and photonic production lines are developed and manufactured in Germany according to ISO 9001. This level of production control enables us to offer our customers tailored solutions for fiber optic components and assemblies, from design to volume production – including harsh environment applications, for example in the aerospace industry.

Capabilities



Sectors



MATERIAL PROCESSING



AEROSPACE



QUANTUM TECHNOLOGY

