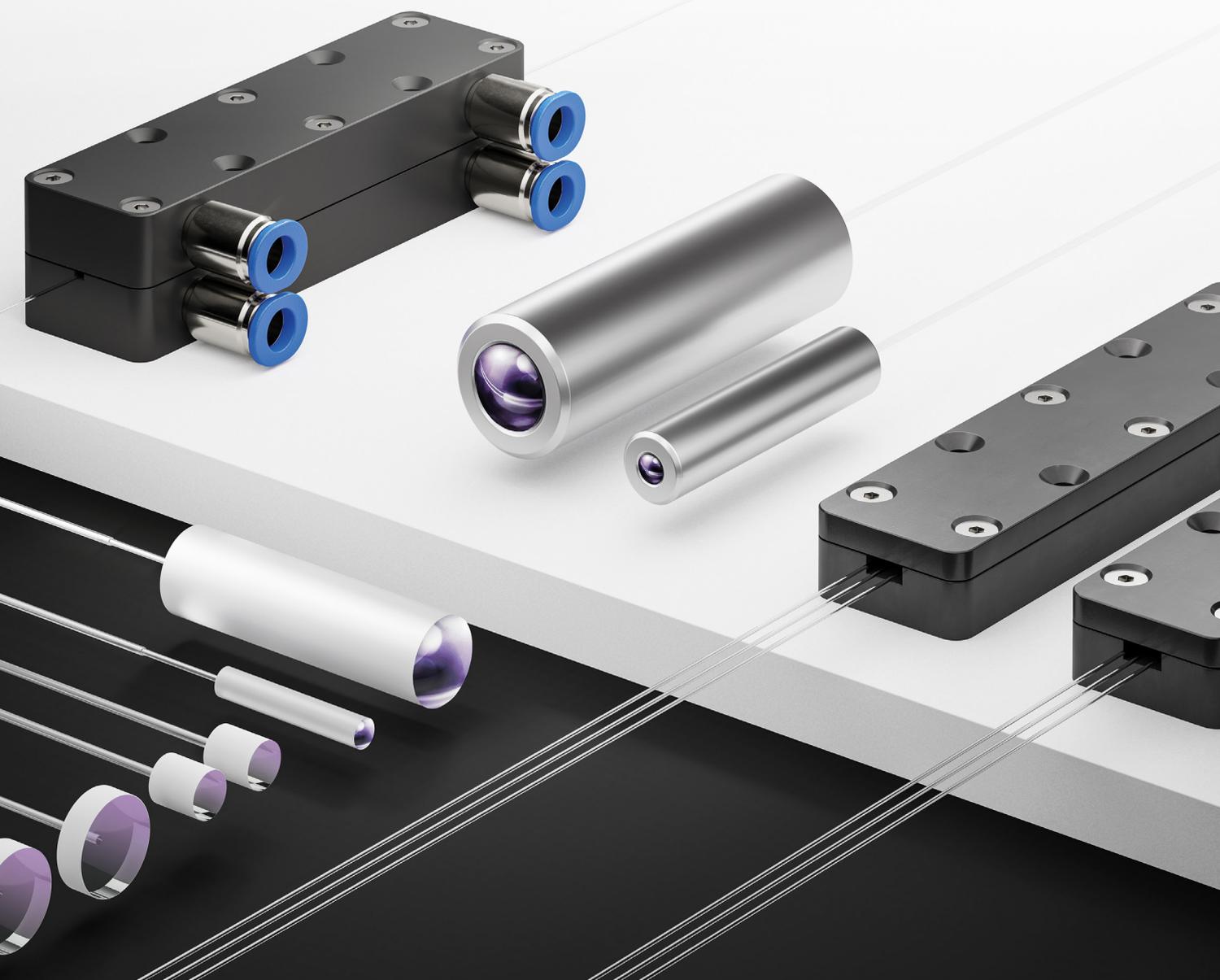


**HIGH-POWER FIBER COMPONENTS**

DESIGNED FOR LMA FIBERS

OUTSTANDING BEAM QUALITY AND PER

FOR HARSH ENVIRONMENT APPLICATIONS





日本デバイス株式会社 E-mail [sales@j-device.com](mailto:sales@j-device.com)

[www.j-device.com](http://www.j-device.com)

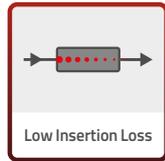
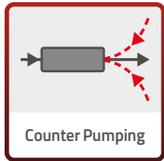
Tel 03-6262-3424 Fax 03-6800-5883

# PUMP COMBINERS

## DESIGNED FOR LMA FIBERS

### Highlights

- | Outstanding Beam Quality And PER
- | Suitable For Backward Pumping
- | High-Power Handling
- | Active Or Passive Fiber
- | Very Low Signal Loss
- | Harsh Environment Applications



### Specifications

#### General

Configuration	2+1x1 And 4+1x1
Pump Direction	Forward And Backward Pumping
Wavelength	400–2200 nm (Nd, Yb, Er, Tm, Ho)
Package Size	90 x 25 x 12 mm (L x W x H)
(Customized Packaging On Request)	70 x 16 x 12 mm (L x W x H) 70 / 90 x 12 x 6.5 mm (L x W x H)

#### Signal

Fiber Type	Active Or Passive, PM Or Non-PM
Insertion Loss	< 0.3 dB (Typically < 0.15 dB)
PER	> 18 dB (Typically > 20 dB)
Fiber Pigtail Length	> 0.8 m

#### Pump

Number Of Pump Ports	2 Or 4 (6 Ports On Request)
Fiber Type	105/125, 106.5/125, 110/125, 200/220
Fiber NA	0.12, 0.15, 0.22
Coupling Efficiency	> 85 % (Typically ≥ 90 %)
Pump Power Per Port	Up To 350 W (Higher Power On Request)
Fiber Pigtail Length	> 1.0 m

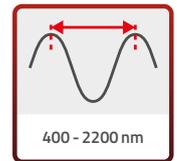
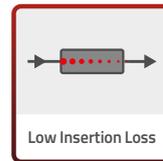
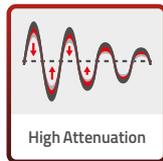
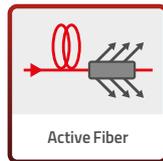
All parameters listed are typical values specified at room temperature. Specifications are subject to change without notice. The exact specifications depend on the fiber types used.

# CLADDING LIGHT STRIPPERS

## FOR kW-CLASS LASER SYSTEMS

### Highlights

- | Power Level Up To 500 W
- | High Attenuation
- | Active Or Passive Fiber
- | PM/Non-PM Fiber
- | Very Low Signal Insertion Loss
- | Harsh Environment Applications



### Specifications

Wavelength	400–2200 nm
Fiber Type	Active Or Passive, PM Or Non-PM
Signal Insertion Loss	< 0.2 dB (Typically < 0.10 dB)
Max. Extracted Cladding Power	300 W ( $\geq$ 500 W On Request)
Typical Optical Attenuation	$\geq$ 20 dB
Typical Fiber Pigtail Length	$\geq$ 1.0 m
Package Size (Up To 100 W)	90 x 25 x 12 mm (L x W x H)
Package Size (Up To 300 W)	90 x 25 x 22 mm (L x W x H)

(Customized Packaging On Request)

All parameters listed are typical values specified at room temperature. Specifications are subject to change without notice. The exact specifications depend on the fiber type.

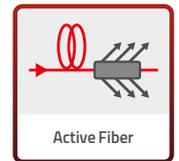
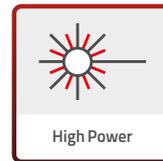
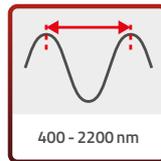
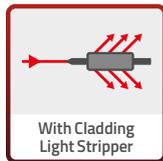


# MODE FIELD ADAPTERS

OUTSTANDING BEAM QUALITY AND PER

## Highlights

- Brilliant Beam Quality
- PM Or Non-PM Fiber
- Active Or Passive Fiber
- High-Power Package
- Low Signal Insertion Loss
- Stable Batch-To-Batch Production



## Specifications

Wavelength	400–2200 nm
Fiber Type	Active Or Passive, PM Or Non-PM
Signal Insertion Loss	Depends On Input/Output Fiber
Typical Power Handling	10 W (Higher Power On Request)
Typical Fiber Pigtail Length	≥ 1.0 m
Typical PER	> 18 dB
Typical Beam Quality	$M^2 \leq 1.2$
Package Size	70 x 12 x 6.5 mm (L x W x H) 70 x 16 x 12 mm (L x W x H)

All parameters listed are typical values specified at room temperature. Specifications are subject to change without notice. The exact specifications depend on the fiber type.

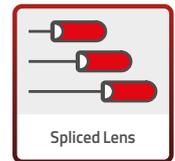
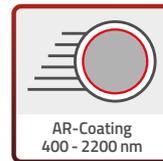
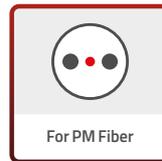
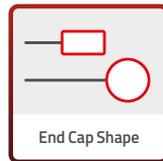
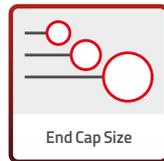


# FIBER COLLIMATORS AND END CAPS

## kW-CLASS POWER HANDLING

### Highlights

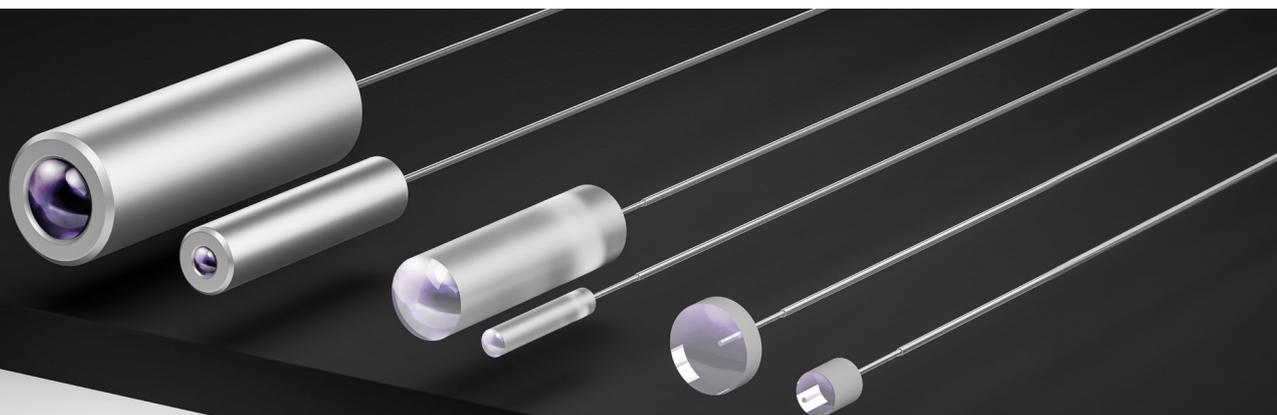
- | kW-Class Power Handling
- | Outstanding Beam Quality And PER
- | Passive And Active Fiber
- | Free Shape And Size Of End Optics
- | Multiple Fibers On Single End Cap/Lens
- | Monolithic All-Glass Solutions



### Specifications

Wavelength	400–2200 nm
Fiber Type	Active Or Passive, PM Or Non-PM
Typical EFL Of Lens	10-20 mm
End Cap Size	2 mm To 50 mm (Other Sizes On Request)
End Cap Type	Cylindrical, Cubic And Many Other Shapes
Power Handling	kW-Class (CW)
Signal Insertion Loss	< 0.05 dB
AR Coating	According To Customer Requirements
Typical PER	> 18 dB
Typical Beam Quality	$M^2 < 1.2$

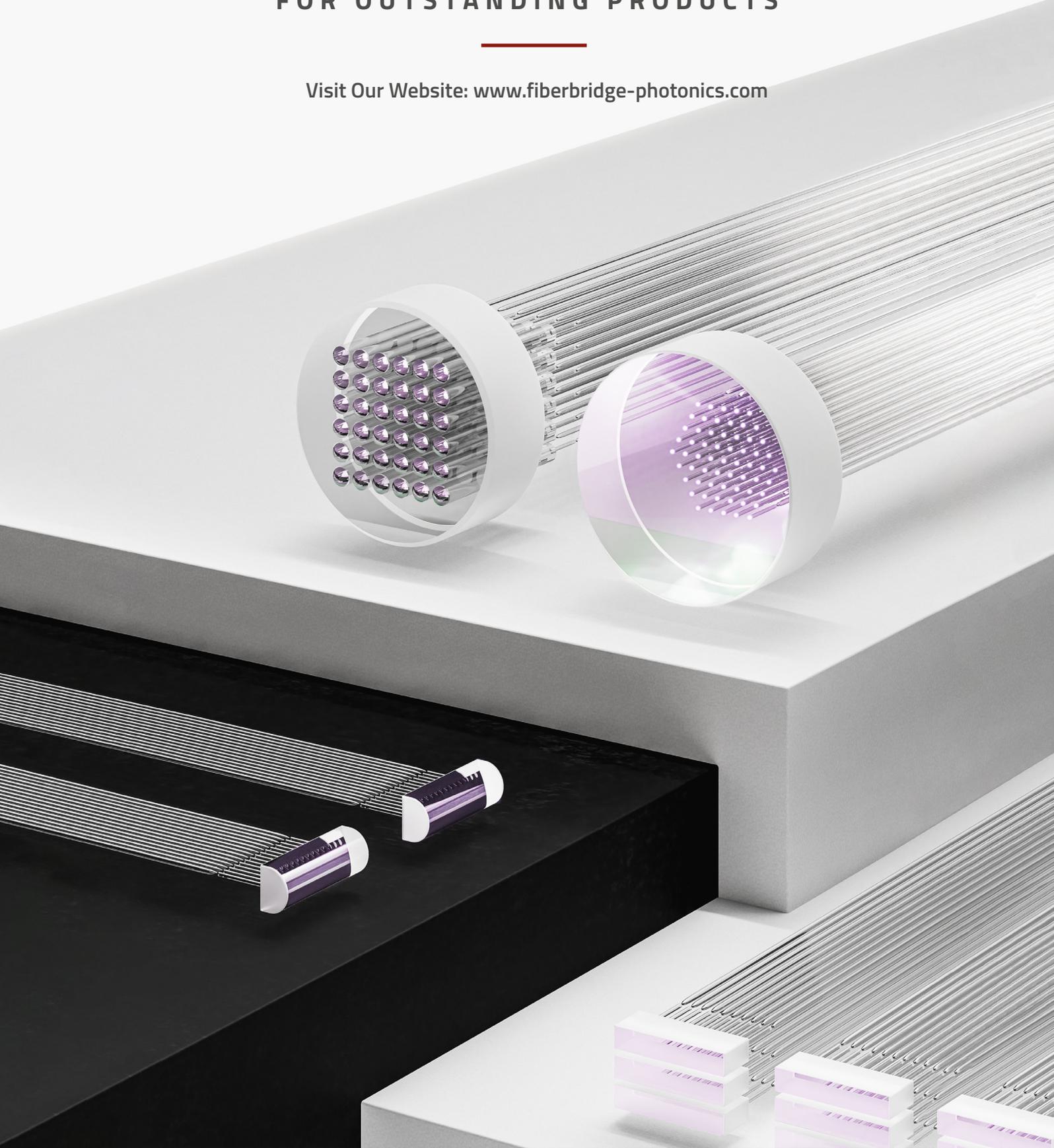
All parameters listed are typical values specified at room temperature. Specifications are subject to change without notice. The exact specifications depend on the fiber type.





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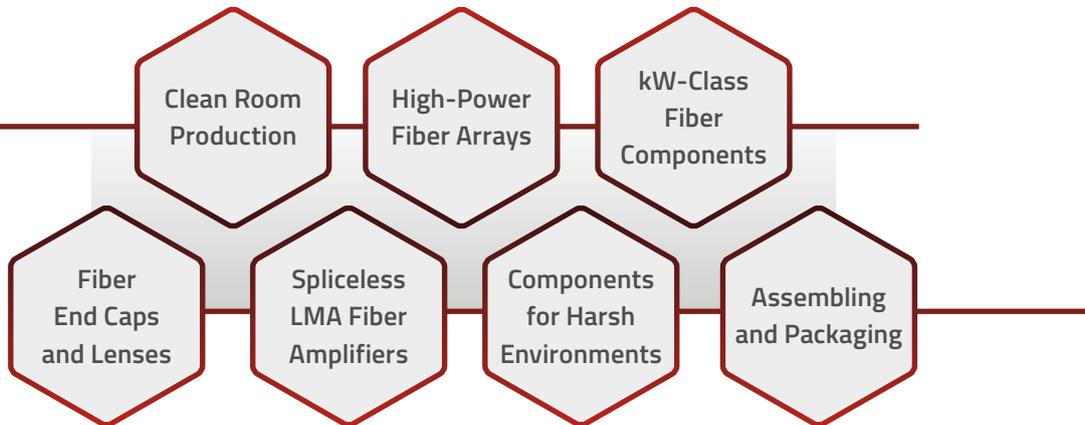
# FIBERBRIDGE PHOTONICS

## 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

