致力成为世界领先的特种光行制造商!

To be the world-leading manufacturer of specialty optical fiber!

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WUHAN CHANGJIN PHOTONICS TECHNOLOGY CO.,LTD.



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CJ Photonics always adheres to customers' requirement orientation, aims for high-value services, guarantees every detail to a scientific degree, products each fiber with a professional attitude, and has become a first-class supplier of specialty fibers and solutions.

Wuhan Changjin Photonics Technology Co., Ltd. was formerly known as Wuhan Changjin Laser Technology Co., Ltd. We are a professional manufacturer and comprehensive service provider of special optical fibers that integrates R&D, production, and sales.

The company has created a proactive, rigorous, pragmatic, and innovative talent team, with complete R&D capabilities and systems covering special optical fibers such as rare earth materials, rare earth doped fibers, and photonic crystal fibers, fiber lasers, and amplifiers. It possesses all core process technologies from fiber preform preparation, fiber drawing, to fiber performance characterization, and has the ability to deliver high-quality, high-performance, and consistent special optical fibers in bulk.









公司简介 **COMPANY PROFILE**

CJ Photonics has been at the forefront of the research and application of new technologies for special optical fiber products for several years concentrates on solving bottleneck problems in the research and application of active optical fibers, and is devoted to promoting the localization of critical material in the fields of fiber lasers and communication amplifiers.

CJ Photonics continuously introduces high-end talents, deepens technology research and development, expands production capacity, and is committed to building a specialized fiber optic technology platform that integrates large-scale preparation and advanced applications.



Enterprise Target

Optic Fiber Supplier

To focus on customer demand, To be a World's Top Specialty to assure product quality, to improve customer service,



Business philosophy

to develop together

Development philosophy



Service philosophy

Continuously improving R&D capabilities. **Customer satisfaction** Innovation is the key is our goal. to shaping the future.

发展历程 DEVELOPMENT PROCESS



2021

A new factory with a total area of 5.000 square meters and a 10000 level clean area of 2.500 square meters was built

The performance of erbium-doped optical fiber for communication amplification was comparable to that of imported products, and it had been recognized by multiple enterprises

Multiple fiber preform manufacturing and fiber drawing lines had been added, and the production capacity had been expanded

Erbium-ytterbium co-doped fiber for vehicle Lidar has broken the monopoly of foreign technology and successfully passed the trial of many customers

Selected as "3551" talent in East Lake High-tech Zone Selected for the Hubei Province Innovation and Entrepreneurship Strategy Team Project

2023

The digital system was upgraded, the quality management system was optimized, and digitalization and industrialization were integrated

Erbium-ytterbium co-doped optical fiber for vehicle lidar was supplied to vehicle regulation certification enterprises in bulk

A subsidiary company was set up and planed to build a factory on its own

"High Performance Laser Fiber" was awarded the "Five Year Excella Achievements of Fiber Laser"

The industrialization of 10000 watts of fiber was complete

2020

Our continuous ytterbium-doped fiber was used in bulk to leading fiber laser companies in China

The pulse energy of ytterbium-doped fiber for high energy pulse laser produced by us that can withstand is at the leading level in China

Set up a communication R & D team and entered the communication and amplification fields

Received the designation of Optics Valley Antelope enterprise

2012The company established

2018

A production line for the preparation of special optical fiber preforming, fiber drawing, and fiber testing was built

Received the designation of "Wuhan Science and Technology
Little Giant Enterprise"

2022

Add a fiber prefabrication line to expand production capacity

Gained investment from Huawei Hubble

Won the Hubei Province manufacturing industry single champion

Rated as a national specialized special new "little giant"

Completed the share reform and changed its name to Wuhan Changjin Photonics Technology Co., LTD

2019

Double clad ytterbium doped pulse laser has been supplied into domestic fiber laser head enterprises in batches

Obtained the high-tech enterprise identification

Passed ISO9001 quality management system certification

Passed the intellectual property management system certification

资质荣誉

QUALIFICATION & HONOR



























主要产品 MAJOR PRODUCTS

✓ Industrial lasers

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Industrial Lasers



Pulse Series Double Cladding Yb-Doped Fiber >>

The CJ Photonics Pulse Series Double Cladding Yb-Doped Fiber is designed for the seed source and amplifier of medium and low-power pulse lasers. This series of fibers has the characteristics of near single-mode transmission, low bending loss, low photon darkening, and high slope efficiency, and can be used in 10-500W pulse fiber lasers, as well as in medical and industrial material processing fields.

Product Features

- © Series concentration doping, suitable for fiber lasers with different application requirements
- Low photon darkening effect, stable and reliable operation
- Acceptable customization

• Application Area

- Pulse fiber laser
- Material processing
- Nonlinear optics/frequency doubling

Product Parameters

Para	meter	Туре	YDF-10/130	YDF-20/130	YDF-23/130	YDF-25/250	YDF-30/250
	Operating Wavelength	nm	1030-1100	1030-1100	1030-1100	1030-1100	1030-1100
	Core NA	-	0.085±0.005	0.075±0.005	0.070±0.005	0.065±0.005	0.060±0.005
Optical	Cladding NA	-	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46
ical	Cladding Absorption@915nm	dB/m	1.3±0.2	3.5±0.5	4.2±0.4	2.3±0.3	2.4±0.3
	Core Attenuation@1200nm	dB/km	≤15.0	≤15.0	≤15.0	≤15.0	≤15.0
	Cladding Attenuation@1095nm	dB/km	≤15.0	≤15.0	≤15.0	≤15.0	≤15.0
	Core Diameter	μm	10.0±1.0	20.0±1.0	23.0±1.0	25.0±2.0	30.0±2.0
Geo	Cladding Diameter	μm	130.0±3.0	130.0±3.0	130.0±3.0	250.0±5.0	250.0±5.0
Geometrical&Mechanical	Cladding Geometry	-	Octagon	Octagon	Octagon	Octagon	Octagon
cal&M	Coating Diameter	μm	245.0±15.0	245.0±15.0	245.0±15.0	395.0±15.0	395.0±15.0
echani	Coating Material	-	low refractive index coating				
cal	Matrix Material	-	silica	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100	≥100

Large Core Diameter Pulse Yb-Doped Fiber >>

The CJ Photonics Large Core Diameter Pulse Series Double Cladding Yb-Doped Fiber is designed for medium to high power pulse laser amplifiers. This series of fibers has the characteristics of super large core to clad ratio, high damage threshold, high slope efficiency, and low photon darkening. It can be used in pulse fiber lasers of 500-1000W, and is applied in medical and industrial material processing fields.

Product Features

Large mode field area, low numerical aperture
 Low photon darkening effect
 High peak power, high single pulse energy
 Acceptable customization

Application Area

- Pulse fiber laser
- Pulse fiber amplifier
- Material processing, medical treatment, scientific research

Product Parameters

Para	meter	Туре	YDF-50/400	YDF-70/400	YDF-100/400	YDF-200/400
	Operating Wavelength	nm	1030-1100	1030-1100	1030-1100	1060-1100
	Core NA	-	0.065±0.005	0.065±0.005	0.10±0.01	0.10±0.01
Optical	Cladding NA	-	≥0.46	≥0.46	≥0.46	≥0.46
ical	Cladding Absorption@915nm	dB/m	2.5±0.5	3.9±0.5	6.0±1.0	6.0±1.0
	Core Attenuation@1200nm	dB/km	≤30.0	≤30.0	≤30.0	≤30.0
	Cladding Attenuation@1095nm	dB/km	≤30.0	≤30.0	≤30.0	≤30.0
	Core Diameter	μm	50.0±5.0	70.0±5.0	100.0±5.0	200.0±10.0
Geo	Cladding Diameter	μm	400.0±10.0	400.0±10.0	400.0±10.0	400.0±10.0
ometri	Cladding Geometry	-	Octagon	Octagon	Octagon	Octagon
cal&M	Coating Diameter	μm	550.0±20.0	550.0±20.0	550.0±15.0	550.0±20.0
Geometrical&Mechanical	Coating Material	-	low refractive index coating			
cal	Matrix Material	-	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100



Continuous Series Yb-Doped Fiber >>

The CJ Photonics Continuous Series Double Cladding Yb-Doped Fiber is designed for medium and high power continuous fiber lasers and amplifiers. The fiber has characteristics such as large mode field area, near single-mode output, high slope efficiency, high mode instability threshold, and low photon darkening. It can be used in 500-6000W continuous fiber lasers and amplifiers, and is also applied in medical and industrial material processing fields.

Product Features

Large mold field area

- Acceptable customization
- High mode instability threshold and low photon darkening effect
- Easy to achieve near single-mode output

Application Area

- High power continuous fiber laser
- Material processing, scientific research

Product Parameters

Para	meter	Туре	YDF-14/250	YDF-20/400	YDF-25/400	YDF-30/400	YDF-30/600
	Operating Wavelength	nm	1030-1100	1030-1100	1030-1100	1030-1100	1030-1100
	Core NA	-	0.070±0.005	0.065±0.005	0.060±0.005	0.058±0.003	0.060±0.005
Optical	Cladding NA	-	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46
ical	Cladding Absorption@915nm	dB/m	0.75±0.05	0.40±0.05	0.60±0.05	0.70±0.20	0.40±0.05
	Core Attenuation@1200nm	dB/km	≤15.0	≤15.0	≤15.0	≤15.0	≤15.0
	Cladding Attenuation@1095nm	dB/km	≤15.0	≤15.0	≤15.0	≤15.0	≤15.0
	Core Diameter	μm	14.0±1.0	20.0±1.5	25.0±1.5	30.0±3.0	30.0±3.0
Geo	Cladding Diameter	μm	250.0±10.0	400.0±10.0	400.0±10.0	400.0±10.0	600.0±10.0
Geometrical&Mechanical	Cladding Geometry	-	Octagon	Octagon	Octagon	Octagon	Octagon
cal&M	Coating Diameter	μm	400.0±15.0	550.0±15.0	550.0±15.0	550.0±15.0	750.0±20.0
echani	Coating Material	-	low refractive index coating				
cal	Matrix Material	-	silica	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100	≥100

1 μm Passive Matching Fiber >>

The CJ Photonics 1 μ m Double Cladding Passive Matching Fiber is designed for 1 μ m pulse or continuous fiber lasers and amplifiers, with high matching degree, low fusion loss, high consistency and stability, ensuring high-performance application of YB-doped fibers in systems.

Product Features

- Better fiber reliability
- Low fusion attenuation and good mode control
- Customization of any size is acceptable

Application Area

- High power (1 μm) fiber laser and amplifier
- Material processing, frequency doubling
- LiDAR

Product Parameters

Para	meter	Туре	GDF-10/130	GDF-30/250	GDF-14/250	GDF-20/400	GDF-30/600
	Operating Wavelength	nm	850-1115	850-1115	850-1115	850-1115	850-1115
	Core NA	-	0.075±0.005	0.062±0.005	0.070±0.005	0.065±0.005	0.065±0.005
Optical	Cladding NA	-	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46
	Core Attenuation@1200nm	dB/km	≤20.0	≤20.0	≤15.0	≤15.0	≤20.0
	Cladding Attenuation@1095nm	dB/km	≤15.0	≤15.0	≤15.0	≤15.0	≤20.0
	Core Diameter	μm	11.0±1.0	30.0±2.0	14.0±1.0	20.0±1.5	30.0±3.0
Geo	Cladding Diameter	μm	130.0±5.0	250.0±5.0	250.0±10.0	400.0±10.0	600.0±5.0
ometri	Core-Cladding Concentricity Error	μm	≤1.0	≤1.5	≤1.0	≤1.5	€2.0
cal&M	Coating Diameter	μm	245.0±10.0	395.0±15.0	395.0±15.0	550.0±15.0	750.0±20.0
Geometrical&Mechanical	Coating Material	-	low refractive index coating				
cal	Matrix Material	-	silica	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100	≥100



PM Yb-Doped Fiber >>

The CJ Photonics Double Cladding PM Yb-Doped Fiber is designed for ultrashort pulse fiber laser seed sources, high-power narrow line-width fiber lasers and amplifiers. This part has the characteristics of single transmission, high polarization extinction ratio, low bending loss, low photodarkening effect, and high slope efficiency which can be applied in laser medical treatment

Product Features

- High reliability
- High power output and high efficiency
- Great polarization retention characteristics

Application Area

- Ultrashort pulse fiber laser, Narrow line-width fiber laser
- Material processing
- Nonlinear optics/frequency doubling

Product Parameters

Para	meter	Туре	YDF- 10/125-PM	YDF- 20/400-PM	YDF- 25/250-PM	YDF- 25/400-PM	YDF- 30/250-PM
	Operating Wavelength	nm	1060-1115	1030-1100	1030-1100	1030-1100	1030-1100
	Core NA	-	0.080±0.005	0.065±0.005	0.065±0.005	0.065±0.005	0.060±0.005
0	Cladding NA	-	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46
Optical	Cladding Absorption@915nm	dB/m	2.0±0.3	0.50±0.05	2.3±0.3	0.60±0.10	2.4±0.3
_	Core Attenuation@1200nm	dB/km	≤15.0	≤15.0	≤15.0	≤15.0	≤15.0
	Cladding Attenuation@1095nm	dB/km	≤15.0	≤15.0	≤15.0	≤15.0	≤15.0
	Birefringence	10-4	3.0±0.5	3.5±0.5	≥2.0	3.5±1.0	3.0±1.0
	Core Diameter	μm	11.5±1.0	20.0±1.5	25.0±2.0	25.0±2.0	30.0±2.0
Geo	Cladding Diameter	μm	125.0±5.0	405.0±5.0	250.0±10.0	400.0±10.0	250.0±10.0
metri	Cladding Geometry	-	Circular, Panda Circle				
cal&M	Coating Diameter	μm	245.0±15.0	550±15.0	395±15.0	550±15.0	395±15.0
Geometrical&Mechanical	Coating Material	-	low refractive index coating				
nical	Matrix Material	-	silica	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100	≥100

PM Passive Matching Fiber >>

The CJ Photonics PM Double Cladding Passive Matching Fiber is designed for scenarios such as Ultrashort pulse fiber lasers and high-power narrow linewidth fiber amplifiers. It has the characteristics of high matching, low fusion loss, and high polarization extinction ratio, ensuring the high performance application of polarization maintaining Yb-doped fibers in systems.

Product Features

- High reliability
- Low fusion attenuation and good mode control
- Can accept customization of any size

Application Area

- O Ultrashort pulse fiber laser, Narrow linewidth fiber laser
- Material processing and frequency doubling
- LiDAR

Product Parameters

Parameter		Туре	GDF-6/125-PM	GDF-20/400-PM	GDF-25/400-PM
	Operating Wavelength	nm	850-1115	850-1115	850-1115
	Core NA	-	0.14±0.02	0.065±0.005	0.064±0.005
Optical	Cladding NA	-	≥0.46	≥0.46	≥0.46
ical	Core Attenuation@1200nm	dB/km	≤10.0	≤25.0	≤15.0
	Cladding Attenuation@1095nm	dB/km	≤15.0	≤15.0	≤15.0
	Birefringence	10⁴	2.5±0.5	4.0±0.5	4.0±0.5
	Core Diameter	μm	5.5±1.0	20.0±1.5	25.0±1.0
0	Cladding Diameter	μm	125.0±2.0	400.0±10.0	400.0±10.0
ieome	Cladding Geometry	-	Circular,Panda Circle	Circular,Panda Circle	Circular,Panda Circle
Geometrical&Mechanical	Core-Cladding Concentricity Error	μm	≤1.5	€2.0	≤2.0
&Mech	Coating Diameter	μm	245.0±15.0	550.0±15.0	550.0±15.0
ianica	Coating Material	-	low refractive index coating	low refractive index coating	low refractive index coating
_	Matrix Material	-	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100



Pump Energy Transmission Fiber >>

The Pump Energy Transmission Fiber of CJ Photonics is designed specifically for the needs of fiber combiners, semiconductor laser packaging, and laser transmission. This fiber optic has low transmission loss and high power tolerance.

Product Features

- Coupled tail fibers compatible with most semiconductor lasers
- Excellent geometric consistency and core/cladding concentricity
- Customization of any size is acceptable

Application Area

- Fiber coupled semiconductor laser
- Coupler and pump combiner

Product Parameters

Parameter		Туре	MM-105/125	MM-135/155	MM-200/220	MM-220/242
	Operating Wavelength	nm	800-1600	800-1600	800-1600	800-1600
Optical	Core NA	-	0.22±0.02	0.22±0.02	0.22±0.02	0.22±0.02
	OH Level	-	Low	Low	Low	Low
	Core Diameter	μm	105.0±3.0	135.0±2.0	200.0±2.0	220.0±2.0
	Cladding Diameter	μm	125.0±2.0	155.0±3.0	220.0±3.0	242.0±3.0
ଦ୍ର	Core-Cladding Concentricity Error	μm	≤3.0	≤3.0	≤3.0	≤3.0
ometri	Outer Coating Diameter	μm	245.0±15.0	320.0±15.0	320.0±20.0	320.0±15.0
Geometrical&Mechanical	Coating Material	-	high refractive index coating	low refractive index coating	high refractive index coating	low refractive index coating
echani	Bending Radius (short time)	mm	≥12	≥15	≥24	≥24
cal	Bending Radius (long time)	mm	≥25	≥31	≥50	≥50
	Matrix Material	-	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100

Pure Silicon Core Multimode Energy Transmission Fiber >>

The Pure Silicon Core Multimode Energy Transmission Fiber of CJ Photonics is specially developed and designed for QBH transmission optical cables, capable of low loss transmission of high-energy lasers.

Product Features

- O Low loss
- © Excellent geometric consistency and core/cladding concentricity
- © Circular fiber core NA and size

Application Area

High power multi-mode output QBH

Product Parameters

Para	meter	Туре	BD-50/70/360	BD-75/90/360	BD-100/120/360	BD-150/172/360	BD-150/180/360
	Operating Wavelength	nm	800-2100	800-2100	800-2100	800-2100	800-2100
Optical	Core NA	-	0.22±0.02	0.22±0.02	0.22±0.02	0.22±0.02	0.15±0.02
	Inner CladdingNA	-	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46
	Core Diameter	μm	50.0±2.0	75.0±3.0	100.0±2.0	150.0±10.0	150.0±3.0
	First Layer Diameter	μm	70.0±2.0	90.0±5.0	120.0±2.0	172.5±2.0	180.0±3.0
Geom	Second Layer Diameter	μm	360.0±3.0	360.0±7.0	360.0±3.0	360.0±3.0	360.0±3.0
etrical	Cladding Diameter	μm	535.0±15.0	535.0±15.0	535.0±15.0	535.0±15.0	535.0±15.0
Geometrical&Mechanical	Coating Material	-	low refractive index coating				
anical	Bending Radius (short time)	mm	≥ 18	-	≥ 18	-	-
	Bending Radius (long time)	mm	≥ 54	≥ 54	≥ 54	≥ 54	≥ 54
	Proof Test	kpsi	≥100	≥100	≥100	≥100	≥100



Flat-Topped Fiber >>

The CJ Photonics Multimode Flat-Topped Energy Transmission Fiber is specially developed and designed for shaping the output spot of high-power fiber lasers, which can homogenize the Gaussian beam output by the fiber laser.

Product Features

- © Excellent spot homogenization effect
- © Excellent geometric consistency and core/cladding concentricity
- Customized

Application Area

High power fiber laser output spot shaping

Product Parameters

Para	meter	Туре	FTF-50/60/360	FTF-75/90/360	FTF-100/120/360	FTF-150/170/360
	Operating Wavelength	nm	800-2100	800-2100	800-2100	800-2100
Optical	Core NA	-	0.22±0.02	0.22±0.02	0.22±0.02	0.22±0.02
ical	Inner Coating NA	-	≥0.46	≥0.46	≥0.46	≥0.46
	Spot homogenization	-	是	是	是	是
	Core Diameter	μm	50.0±2.0	75.0±2.0	100.0±2.0	150.0±3.0
Geom	First Layer Diameter	μm	60.0±5.0	90.0±2.0	120.0±2.0	170.0±3.0
Geometrical&Mechanical	Second Layer Diameter	μm	360.0±7.0	360.0±3.0	360.0±3.0	360.0±5.0
&Mech	Coating Diameter	μm	535.0±15.0	535.0±15.0	535.0±15.0	535.0±15.0
anical	Coating Material	-	low refractive index coating			
	Proof Test	kpsi	≥100	≥100	≥100	≥100

Multi Cladding Energy Transmission Fiber >>

The Multi Cladding Energy Transmission Fiber of CJ Photonics is specially developed and designed for outputting point ring shaped light spots, providing a solution for multiple energy forms of fiber laser output.

Product Features

- © Excellent multi cladding structure
- © Excellent geometric consistency and core/cladding concentricity
- Customized

Application Area

- O Dot ring spot output
- Beam tunable fiber laser

• 技术参数

Para	meter	Туре	MCF-14/40/ 100/120/360	MCF-34/48/ 100/120/360	MCF-50/70/ 150/172/360	MCF-100/120/ 300/360/460
	Operating Wavelength	nm	800-2100	800-2100	800-2100	800-2100
	Core NA	-	0.070±0.010	0.22±0.02	0.22±0.02	0.22±0.02
Optical	NA of the second layer cladding	-	0.22±0.02	0.22±0.02	0.22±0.02	0.22±0.02
ical	NA of the fifth cladding	-	≥0.46	≥0.46	≥0.46	≥0.46
	Core Diameter	μm	14.0±0.5	34.0±2.0	50.0±2.0	100.0±2.0
	Diameter of the first cladding	μm	40.0±2.0	48.0±3.0	70.0±3.0	120.0±3.0
	Diameter of the second cladding	μm	100.0±2.0	100.0±4.0	150.0±4.0	300.0±4.0
0	Diameter of the third cladding	μm	120.0±4.0	120.0±4.0	172.0±4.0	360.0±4.0
Geome	Diameter of the fourth cladding	μm	360.0±5.0	360.0±5.0	360.0±5.0	460.0±5.0
etrical	Diameter of the fifth cladding	μm	455.0±5.0	455.0±10.0	455.0±15.0	540.0±15.0
&Mech	Coating Diameter	μm	540±14.0	540±15.0	540±20.0	650±20.0
Geometrical&Mechanical	Inner Coating Material	-	low refractive index coating			
	Matrix Material	-	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100



Communication LiDAR

C-Band Er-Doped Fiber >>

CJ Photonics C-band Erbium Doped Fiber is designed for C-band single channel and multi-channel fiber amplifiers, ASE light sources, urban network EDFA, CATV EDFA, and DWDM EDFA applications. This fiber can be pumped at 980 nm or 1480 nm, with low connection loss and good consistency with communication fibers.

Product Features

- Series concentration doping, suitable for fiber amplifiers with different application requirements.
- High consistency and stable performance

• Application Area

- Single channel/Multi-channel fiber amplifier
- ASE light source

Product Parameters

Para	Parameter		EDF-M-7	EDF-M-14	EDF-M-21
	Operating Wavelength	nm	C-band	C-band	C-band
	Cut-off wavelength	nm	≤960	≤1270	≤1270
Optical	Core NA	-	0.21±0.02	0.24±0.02	0.23±0.02
ical	Backgrouund Loss@1200nm	dB/km	≤5.0	≤10.0	≤10.0
	Core Absorption@1530nm	dB/m	7.0 ± 1.0	14.0±1.5	21.0±2.0
	Mode-field Diameter@1550nm	μm	6.2±0.7	5.2±0.7	5.2±0.7
	Cladding Diameter	μm	125.0±1.0	125.0±1.0	125.0±1.0
Geo	Coating Diameter	μm	245.0±5.0	245.0±5.0	245.0±5.0
metri	Core-Cladding Concentricity Error	μm	€0.3	€0.3	≤0.3
Geometrical&Mechanical	Cladding Geometry	-	Circular	Circular	Circular
echan	Coating Material	-	high refractive index coating	high refractive index coating	high refractive index coating
ical	Matrix Material	-	silica	silica	silica
	Proof Test	kpsi	≥200	≥200	≥200



L-Band Er-Doped Fiber >>

The CJ Photonics L-Band Er-Doped Fiber has been optimized for doping L-band single channel and multi-channel fiber amplifiers, ASE light sources, domain networks, CATVs, and EDFAs used in DWDM. High doping can reduce the length of erbium fiber usage, thereby reducing the nonlinear effects of the fiber. This fiber can be pumped at 980nm or 1480nm, with low connection loss and good consistency with communication fibers.

Product Features

- Series concentration doping, optimized for L-band amplifiers
- High consistency and stable performance

Application Area

- L-band single channel/multi-channel fiber amplifier
- ASE light source
- ◎ 1.5 μm laser amplification

Product Parameters

Para	Parameter		EDF-M-30	EDF-M-37	EDF-M80-30
	Operating Wavelength	nm	L-band	L-band	L-band
	Cut-off Wavelength	nm	≤1230	≤1230	≤1230
Optical	Core NA	-	0.26±0.02	0.26±0.02	0.26±0.02
ical	Backgrouund Loss@1200nm	dB/km	≤10.0	≤10.0	≤10.0
	Core Absorption@1530nm	dB/m	30.0±3.0	37.0±3.0	30.0±3.0
	Mode-field Diameter@1550nm	μm	4.9±0.7	5.0±0.7	4.9±0.7
	Cladding Diameter	μm	125.0±1.0	125.0±1.0	80.0±1.0
Geo	Coating Diameter	μm	245.0±5.0	245.0±5.0	165.0±2.0
ometri	Core-Cladding Concentricity Error	μm	≤0.3	≤0.3	≤0.3
Geometrical&Mechanical	Cladding Geometry	-	Circular	Circular	Circular
echani	Coating Material	-	high refractive index coating	high refractive index coating	high refractive index coating
cal	Matrix Material	-	silica	silica	silica
	Proof Test	kpsi	≥200	≥200	≥200

High Absorption Er-Doped Fiber >>

The CJ Photonics High Absorption Er-Doped Fiber can reduce the length of the fiber used, thereby reducing the nonlinear effects of the fiber. They are mainly used in 1.5 μ m fiber amplifiers and fiber lasers. This fiber uses a 980nm or 1480nm pump, with low fusion loss and good consistency.

Product Features

- High concentration doping reduces nonlinear effects
- High consistency and stable performance

Application Area

- Fiber amplifier
- Fiber laser

Product Parameters

Para	meter	Туре	EDF-M-50	EDF-M-80	EDF-M-100	EDF-M-150
	Cut-off Wavelength	nm	≤1300	≤1300	≤1400	≤1500
	Core NA	-	0.26±0.02	0.26±0.02	0.26±0.02	0.26±0.02
Optical	Backgrouund Loss@1200nm	dB/km	≤15.0	≤15.0	≤15.0	≤15.0
ical	Core Absorption@1530nm	dB/m	50.0±10.0	80.0±20.0	100.0±20.0	150.0±30.0
	Mode-field Diameter@1550nm	μm	5.0±0.7	5.0±0.7	5.0±0.7	5.0±0.7
	Cladding Diameter	μm	125.0±1.0	125.0±1.0	125.0±1.0	125.0±1.0
	Coating Diameter	μm	245.0±5.0	245.0±5.0	245.0±5.0	245.0±5.0
Geom	Core-Cladding Concentricity Error	μm	€0.3	€0.3	€0.3	≤0.3
etrical	Cladding Geometry	-	Circular	Circular	Circular	Circular
Geometrical&Mechanical	Coating Material	-	high refractive index coating			
anical	Matrix Material	-	silica	silica	silica	silica
	Proof Test	kpsi	≥200	≥200	≥200	≥200



Panda Type PM Er-Doped Fiber >>

PM Er-Doped Fiber is mainly used in $1.5~\mu m$ polarization maintaining optical amplifiers, LiDAR, and eye safety laser products. CJ Photonics PM Er-Doped Fiber has high birefringence and excellent polarization retention properties. This fiber has a high doping concentration, which can reduce the required pump power and fiber length, thereby reducing the impact of nonlinear effects. At the same time, optical fibers exhibit lower fusion losses and stronger bending resistance. The PM Er-doped fiber has good consistency based on the fiber fabrication process of CJ Photonics .

Product Features

- High birefringence characteristics
- High efficiency, reducing pump power
- High batch consistency

Application Area

- © 1.5 μm polarization maintaining fiber laser
- Eye safe fiber laser and amplifier
- LiDAR

Product Parameters

Para	meter	Туре	EDF-PM-7	EDF-PM-14	EDF-PM-30	EDF-PM-50
	Cut-off Wavelength	nm	≤1300	≤1300	≤1300	≤1300
	Core NA	-	0.22±0.02	0.22±0.02	0.26±0.02	0.26±0.02
Optical	Core Absorption@1530nm	dB/m	7.0±2.0	14.0±3.0	30.0±3.0	50.0±5.0
ical	Birefringence	10-4	≥3.5	≥3.5	≥3.5	≥3.5
	Mode-field Diameter@1550nm	μm	5.5±1.0	5.0±1.0	5.0±1.0	5.5±1.0
	Cladding Diameter	μm	125.0±1.0	125.0±1.0	125.0±1.0	125.0±1.0
	Coating Diameter	μm	245.0±5.0	245.0±5.0	245.0±5.0	245.0±5.0
Geom	Core-Cladding Concentricity Error	μm	≤0.5	≤0.5	≤0.5	≤0.5
etrical	Cladding Geometry	-	Circular, Panda Circle	Circular, Panda Circle	Circular, Panda Circle	Circular, Panda Circle
Geometrical&Mechanical	Coating Material	-	high refractive index coating			
anical	Matrix Material	-	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100

Radiation Resistant Er-Doped Fiber >>

CJ Photonics Radiation Resistant Er-Doped Fiber has good radiation resistance characteristics, which can effectively reduce the impact of high-energy ion radiation on Er-doped fibers. This fiber has good consistency. It can be pumped at 980 nm or 1480 nm to achieve low loss connection with communication fibers.

Product Features

- Series concentration doping, suitable for fiber amplifiers with different requirements
- High consistency and stable performance
- Radiation resistance (300-1000gy)

Application Area

- Single channel/multi-channel fiber amplifierFiber laser
- ASE light source

Low earth orbit satellite communication

Product Parameters

Para	meter	Туре	EDF-M-7-RAD	EDF-M-14-RAD	EDF-M-21-RAD	EDF-M-30-RAD
	Cut-off Wavelength	nm	≤1230	≤1300	≤1300	≤1300
	Core NA	-	0.22±0.02	0.22±0.02	0.24±0.02	0.26±0.02
Optical	Backgrouund Loss@1200nm	dB/km	≤15.0	≤20.0	≤20.0	≤25.0
ical	Core Absorption@1530nm	dB/m	7.0 ± 1.0	14.0±1.5	21.0±2.0	30.0±3.0
	RIGV@1545nm	dB/krad	<0.025	≤0.03	<0.06	≤0.035
	Mode-field Diameter@1550nm	μm	5.0±1.0	5.5±1.0	5.0±0.7	5.5±1.0
	Cladding Diameter	μm	125.0±1.0	125.0±1.0	125.0±1.0	125.0±1.0
Geo	Coating Diameter	μm	245.0±10.0	245.0±10.0	245.0±5.0	245.0±10.0
Geometrical&Mechanical	Core-Cladding Concentricity Error	μm	≤0.3	≤0.3	€0.3	≤0.3
cal&M	Cladding Geometry	-	Circular	Circular	Circular	Circular
echani	Coating Material	-	high refractive index coating			
cal	Matrix Material	-	silica	silica	silica	silica
	Proof Test	kpsi	≥200	≥200	≥200	≥200



PM Radiation Resistant Er-Doped Fiber >>

CJ Photonics PM Er-Doped Fiber has excellent radiation resistance, which can effectively reduce the impact of high-energy ion radiation on Er-doped fibers. At the same time, they have high birefringence and excellent polarization retention characteristics. This fiber optic has good consistency. 980nm or 1480nm series pumps can be used to achieve low loss connection with communication fibers.

Product Features

- series concentration doping, suitable for fiber amplifiers with different requirements
- High consistency and stable performance
- Radiation resistance (300-1000gy)

Application Area

- Single channel/multi-channel fiber amplifier Fiber laser
- ASE light source

Low earth orbit satellite communication

Product Parameters

Para	meter	Туре	EDF-PM-7-RAD	EDF-PM-14-RAD	EDF-PM-19-RAD	EDF-PM-30-RAD
	Cut-off Wavelength	nm	-	≤1300	≤1300	≤1230
	Core NA	-	0.22±0.02	0.22±0.02	0.22±0.02	0.26±0.02
Optical	Backgrouund Loss@1200nm	dB/km	≤15.0	≤20.0	≤20.0	≤20.0
ical	Core Absorption@1530nm	dB/m	7.0±1.0	14.0±3.0	19.0±3.0	30.0± 3.0
	RIGV@1545nm	dB/krad	≤0.025	< 0.03	≤0.03	≤0.03
	Birefringence	10-4	≥3.5	>3.5	≥3.5	≥3.5
	Mode-field Diameter@1550nm	μm	5.0±1.0	5.5±1.0	5.5±1.0	5.5±1.0
0	Cladding Diameter	μm	125.0±1.0	125.0±1.0	125.0±1.0	125.0±1.0
Geometrical&Mechanical	Coating Diameter	μm	245.0±10.0	245.0±5.0	245.0±10.0	245.0±5.0
etrical	Core-Cladding Concentricity Error	μm	≤0.3	€0.5	≤0.5	≤0.5
&Mech	Cladding Geometry	-	Circular, Panda Circle	Circular, Panda Circle	Circular, Panda Circle	Circular, Panda Circle
nanica	Coating Material	-	high refractive index coating			
_	Matrix Material	-	silica	silica	silica	silica
	Proof Test	kpsi	≥ 100	≥ 100	≥ 100	≥ 100

Er and Yb Co-Doped Fiber >>

Er and Yb Co-Doped Fiber is mainly used in high-power telecommunications/CATV fiber amplifiers, laser ranging, LiDAR, and human eye safety lasers. This fiber has low fusion loss and high optical to optical conversion efficiency. A higher absorption coefficient ensures output power and lower cost. Based on the mature preparation process, optical fibers can regulate the absorption coefficient and gain spectrum, with good consistency.

Product Features

- Series concentration doping, suitable for fiber amplifiers with different application requirements
- High consistency and stable performance
- Acceptable customization

Application Area

Fiber amplifierLiDARFiber laserLaser ranging

Product Parameters

Para	meter	Туре	EYDF- SM-6/125	EYDF- SM-6/125H	EYDF- SM-10/125	EYDF- SM-10/125H	EYDF- SM-12/125H
	Operating Wavelength	nm	1530-1625	1530-1625	1530-1625	1530-1625	1530-1625
	Core NA	-	0.2±0.02	0.2±0.02	0.12±0.02	0.12±0.02	0.12±0.02
Optical	CladdingNA	-	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46
ical	Cladding Attenuation@1095nm	dB/km	€30	€30	€30	€30	€30
	Cladding Absorption@915nm	dB/m	0.75±0.25	1.0±0.25	3.5±1.0	3.0±0.5	3.5±1.0
	Core Absorption@1535nm	dB/m	30.0±10.0	60.0±15.0	40.0±15.0	70.0±15.0	70.0±15.0
	Core Diameter	μm	6.0±0.5	6.0±0.5	10.0±1.0	10.0±1.0	12.0±1.0
Ge	Inner Cladding Diameter	μm	125.0±3.0	125.0±3.0	125.0±3.0	125.0±3.0	125.0±3.0
ometri	Coating Diameter	μm	245.0±15.0	245.0±15.0	245.0±15.0	245.0±15.0	245.0±15.0
cal&M	Inner Cladding Geometry	-	Octagon	Octagon	Octagon	Octagon	Octagon
Geometrical&Mechanical	Outer Cladding Material	-	low refractive index coating				
cal	Matrix Material	-	silica	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100	≥100



PM Er and Yb Co-Doped Fiber >>

PM Er and Yb Co-Doped Fiber is mainly used in 1.5 μ m polarization maintaining optical amplifiers, LiDAR, and human eye safety laser products. CJ Photonics polarization maintaining Er and Yb Co-Doped Fiber has high birefringence and excellent polarization retention properties. This fiber has a high doping concentration and energy transfer efficiency, which can reduce the required pump power and fiber length, thereby reducing the impact of nonlinear effects. At the same time, optical fibers exhibit high efficiency and excellent beam quality, lower fusion losses, and strong bending resistance. Based on the fiber-fabrication process of CJ Photonics, the polarization maintaining erbium-yterbium co doped fiber exhibits good consistency.

Product Features

- High birefringence characteristics
- High energy transfer efficiency and reduced pump power
- © Optimized fiber core components reduce 1 μ m ASE

Application Area

- © Ultra fast 1.5 μm fiber laser
- Eye safe fiber laser and amplifier
- LiDAR

Product Parameters

Para	meter	Туре	EYDF-PM-6/125	EYDF-SPM-10/125	EYDF-SPM-10/125H	EYDF-PM-25/300
	Operating Wavelength	nm	1530-1625	1530-1625	1530-1625	1530-1625
	Core NA	-	0.20±0.02	0.12±0.02	0.12±0.02	0.09±0.01
Optical	CladdingNA	-	≥0.46	≥0.46	≥0.46	≥0.46
ical	Cladding Attenuation@1095nm	dB/km	€30	€30	€30	€30
	Core Absorption@1535nm	dB/m	30.0±10.0	40.0±15.0	70.0 ± 15.0	85.0±15.0
	Cladding Absorption@915nm	dB/m	1.0±0.25	3.5±1.0	3.5±1.0	3.0±0.5
	Birefringence	10-4	≥1.5	≥1.5	≥1.5	≥1.5
	Core Diameter	μm	6.0±1.0	10.0±1.0	10.0±1.0	25.0±2.0
Geor	Cladding Diameter	μm	125.0±3.0	125.0±3.0	125.0±3.0	300.0±8.0
Geometrical&Mechanical	Coating Diameter	μm	245.0±10.0	245.0±10.0	245.0±10.0	450.0±15.0
cal&M	Core-Cladding Concentricity Error	μm	≤1.0	≤1.0	≤1.0	€2.0
lecha	Inner Coating Material	-	low refractive index coating			
nical	Cladding Geometry	-	Circular, Panda Circle	Circular, Panda Circle	Circular, Panda Circle	Circular, Panda Circle
	Matrix Material	-	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100

Radiation Resistant Er and Yb Co-Doped Fiber >>

CJ Photonics Radiation Resistant Er and Yb Co-Doped Fiber has good radiation resistant characteristics, which can effectively reduce the impact of high-energy ion radiation on Er-doped fibers. This fiber has good consistency and high conversion efficiency.

Product Features

- Series concentration doping, suitable for fiber amplifiers with different application requirements
- High consistency and stable performance
- Radiation resistance (300-1000gy)

Application Area

Single/multi-channel fiber amplifier
 ASE light source
 Elow earth orbit satellite communication

Product Parameters

Para	meter	Type	EYDF-MM- 10/125-RAD	EYDF-MM- 10/125H-RAD	EYDF-SM- 10/125-RAD	EYDF-SM- 10/125H-RAD
	Operating Wavelength	nm	1530-1625	1530-1625	1530-1625	1530-1625
	Core NA	-	0.22±0.02	0.22±0.02	0.12±0.02	0.12±0.02
Optical	Core Absorption@1535nm	dB/m	50.0±15.0	85.0±25.0	50.0±15.0	65.0±15.0
ical	Cladding Absorption@915nm	dB/m	3.0±0.5	3.0±0.5	3.0±0.5	3.0±0.5
	Cladding Absorption@976nm	dB/m	12.0±3.0	12.0±3.0	12.0±3.0	-
	RIGV@1550nm	dB/krad	≤0.03	≤0.03	≤0.03	≤0.03
	Core Diameter	μm	10.0±1.0	10.0±1.0	10.0±1.0	10.0±1.0
0	Inner Cladding Diameter	μm	125.0±3.0	125.0±3.0	125.0±3.0	125.0±3.0
Geome	Coating Diameter	μm	245.0±10.0	245.0±10.0	245.0±10.0	245.0±10.0
etrical	Core-Cladding Concentricity Error	μm	≤1.0	≤1.0	≤1.0	≤1.0
Geometrical&Mechanical	Outer Coating Material	-	low refractive index coating			
nanica	Inner Cladding Geometry	-	Octagon	Octagon	Octagon	Octagon
_	Matrix Material	-	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100



1.5 μm Passive Matching Fiber >>

By Matching the Passive Matching Fiber with Er and Yb Co-Doped Fiber at a wavelength of $1.5~\mu m$, the high matching performance reduces fusion loss and ensures the high-performance output of Er and Yb co-doped fiber in system applications.

Product Features

- Better reliability
- Low fusion attenuation and good mode control

• Application Area

- ⊚ Eye safety (1.5 μm) fiber laser
- Laser ranging, LiDAR

Product Parameters

Para	meter	Туре	GDF-6/125	GDF-9/125	GDF-LMA-25/300	GDF-LMA-30/250
	Operating Wavelength	nm	1530-1625	1450-1600	1530-1800	1500-1625
	Core NA	-	0.18±0.01	0.12±0.01	0.085±0.01	0.090±0.01
Optical	CladdingNA	-	≥0.46	≥0.46	≥0.46	≥0.46
ical	Mode-field Diameter@1550nm	μm	6.5±0.5	10.5±0.7	-	-
	Cut-off Wavelength	nm	≤1430	≤1430	-	-
	Core Attenuation@1550nm	dB/km	≤ 6.0	≤ 1.0	-	≤15.0
	Cladding Attenuation@1095nm	dB/km	≤ 15.0	≤ 15.0	≤ 15.0	≤30.0
	Core Diameter	μm	6.0±1.0	9.0±1.0	25.0±2.0	30.0±2.0
Geor	Cladding Diameter	μm	125.0±2.0	125.0±1.0	300.0±5.0	250.0±5.0
Geometrical&Mechanical	Inner Cladding Geometry	-	Circular	Circular	Circular	Circular
cal&M	Core-Cladding Concentricity Error	μm	≤0.50	≤0.50	≤2.00	≤2.00
lecha	Coating Diameter	μm	245.0±10.0	245.0±10.0	450.0±15.0	395.0±10.0
nical	Coating Material	-	low refractive index coating			
	Matrix Material	-	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100

1.5 μm PM Passive Matching Fiber >>

The CJ Photonics 1.5 μ m PM Passive Matching Fiber is matched with PM Er and Yb Co-Doped Fiber to achieve high matching performance, reduce fusion losses, and ensure the high-performance output of Polarization Maintaining Er and Yb codoped fiber in system applications.

Product Features

- Better fiber optic reliability
- High birefringence characteristics

• Application Area

- © Eye safety (1.5 μm) fiber laser
- Laser ranging, LiDAR

Product Parameters

Para	Parameter		GDF-PM-6/125	GDF-PM-9/125	GDF-PM-25/300	
Optical Geometrical&Mechanical	Operating Wavelength	nm	1530-1625	1450-1600	1530-1800	
	Cut-off Wavelength	nm	≤1430	≤1430	-	
	Core NA	-	0.18 ± 0.01	0.12±0.01	0.085±0.01	
	CladdingNA	-	≥0.46	≥0.46	≥0.46	
	Core Attenuation@1550nm	dB/km	≤10.0	≤2.0	-	
	Cladding Attenuation@1095nm	dB/km	≤15.0	≤15.0	≤15.0	
	Mode-field Diameter@1550nm	μm	6.5±0.5	10.5 ± 0.7	-	
	Birefringence	10-4	≥1.5	≥2.5	≥2.5	
	Core Diameter	μm	6.0±0.5	9.0 ± 1.0	25.0±2.0	
	Cladding Diameter	μm	125.0±1.0	125.0±3.0	300.0±8.0	
	Cladding Geometry	-	Circular,Panda Circle	Circular,Panda Circle	Circular,Panda Circle	
	Core-Cladding Concentricity Error	μm	≤0.50	≤0.50	≤2.00	
	Coating Diameter	μm	245.0±10.0	245.0±10.0	450.0±15.0	
	Coating Material	-	low refractive index coating	low refractive index coating	low refractive index coating	
	Matrix Material	-	silica	silica	silica	
	Proof Test	kpsi	≥100	≥100	≥100	



Medical Cosmetology

Double Cladding Tm-Doped Fiber >>

CJ Photonics 10/130 Double Cladding Tm-Doped Fiber is a single-mode double cladding fiber designed for human eye safety with a 2 μ m fiber amplifier and laser. By optimizing Tm ion doping, it has a high slope efficiency when pumped at a wavelength of 793nm and can be applied in medical and plastic processing industries.

Product Features

High conversion efficiency

Application Area

- © Eye safety (2 μm) fiber laser
- © Eye safety (2 μm) fiber amplifier
- © LiDAR, Plastic processing, Medical beauty, Surgical procedures

Product Parameters

Parameter		Туре	TDF-10/130	TDF-15/250	TDF-25/250	TDF-25/400
Optical	Operating Wavelength	nm	1600-2100	1600-2100	1600-2100	1600-2100
	Core NA	-	0.14±0.01	0.10±0.02	0.09±0.01	0.10±0.02
	CladdingNA	-	≥0.46	≥0.46	≥0.46	≥0.46
	Cladding Absorption@793nm	dB/m	3.2±0.2	2.0±0.2	4.8±0.2	2.4±0.2
	Cladding Attenuation@860nm	dB/km	≤20.0	≤20.0	≤20.0	≤20.0
Geometrical&Mechanical	Core Diameter	μm	10.0±1.0	15.0±1.0	25.0±1.0	25.0±2.0
	Cladding Diameter	μm	130.0±2.0	250.0±5.0	250.0±5.0	400.0±5.0
	Cladding Geometry	-	Octagon	Octagon	Octagon	Octagon
	Coating Diameter	μm	245.0±10.0	395.0±10.0	395.0±10.0	550.0±10.0
	Coating Material	-	low refractive index coating			
	Matrix Material	-	silica	silica	silica	silica
	Mechanical Strength	kpsi	≥100	≥100	≥100	≥100



2 μm Double Cladding Passive Matching Tm-Doped Fiber >>

CJ Photonics 2 μ m Double Cladding Passive Matching Tm-Doped Fiber is designed for high-power 2 μ m pulse or continuous fiber lasers and amplifiers. It has the characteristics of high matching degree, low fusion loss, high consistency and stability, ensuring the high-performance output of Tm-doped fibers in system applications.

Product Features

- Low fusion attenuation and good mode control
- High reliability

Application Area

© 2 μm fiber laser and amplifier

Product Parameters

Para	meter	Туре	GDF-10/130-T	GDF-15/250-T	GDF-20/250-T	GDF-25/250-T	GDF-25/400-T
Optical	Operating Wavelength	nm	1900-2100	1900-2100	850-2100	1900-2100	1900-2100
	Core NA	-	0.15±0.01	0.11±0.02	0.10±0.02	0.11±0.01	0.11±0.01
	Inner CladdingNA	-	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46
	Cladding Attenuation@1095nm	dB/km	≤15.0	≤15.0	≤15.0	≤15.0	≤15.0
	Core Attenuation@1200nm	dB/km	-	≤20.0	≤20.0	-	-
Geometrical&Mechanical	Core Diameter	μm	10.0±1.0	15.0±1.0	20.0±1.0	25.0±1.0	25.0±2.0
	Cladding Diameter	μm	130.0±2.0	247.0±5.0	250.0±5.0	247.0±5.0	400.0±10.0
	Core-Cladding Concentricity Error	μm	≤1.0	€0.7	≤1.5	≤1.5	€2.0
	Coating Diameter	μm	245.0±10.0	395.0±10.0	395.0±10.0	395.0±10.0	550.0±15.0
	Coating Material	-	low refractive index coating				
	Matrix Material	-	silica	silica	silica	silica	silica
	Mechanical Strength	kpsi	≥100	≥100	≥100	≥100	≥100

2 μm PM Tm-Doped Fiber and Passive Matching Fiber >>

CJ Photonics PM Double Cladding Tm-Doped Fiber is a high-power 2 μ m narrow linewidth fiber amplifier designed for human eye safety. By optimizing Tm ion doping, it has the characteristics of high slope efficiency, high absorption coefficient, and high polarization extinction ratio when pumped at a wavelength of 793nm.

Product Features

- Optimize components for high conversion efficiency
- High absorption coefficient
- High polarization extinction ratio

Application Area

- © 2 μm narrow line width fiber amplifier
- © LiDAR, Plastic processing, Medical beauty, Surgical procedures

Product Parameters

Parameter		Туре	TDF-15/250-PM	TDF-25/400-PM	GDF-15/250-PM	GDF-25/400-PM
Optical	Operating Wavelength	nm	1900-2100	1600-2100	1900-2100	1900-2100
	Core NA	-	0.11±0.02	0.10±0.01	0.10±0.02	0.11±0.01
	CladdingNA	-	≥0.46	≥0.46	≥0.46	≥0.46
	Cladding Attenuation@860nm	dB/km	≤15.0	≤15.0	≤15.0	-
	Cladding Absorption@793nm	dB/m	2.2±0.2	2.2±0.2	-	-
Geometrical&Mechanical	Birefringence	10-4	3.0±0.5	3.0±0.5	3.0±0.5	≥3.0
	Core Diameter	μm	15.0±1.0	25.0±2.0	15.0±1.0	25.0±2.0
	Cladding Diameter	μm	250.0±5.0	400.0±5.0	250.0±10.0	400.0±10.0
	Cladding Geometry	-	Circular, Panda Circle	Circular, Panda Circle	Circular, Panda Circle	Circular, Panda Circle
	Outer Coating Diameter	μm	395.0±10.0	550.0±15.0	395.0±15.0	550.0±15.0
	Coating Material	-	low refractive index coating			
	Matrix Material	-	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100

定制化服务 CUSTOMIZATION SERVICE

To meet the diverse customization needs of customers for special optical fibers:

Geometric Parameter

Fiber core size, cladding size, number of cladding layers, conical structure, conical ratio, etc. are optional.

01

02

Optical Parameters

Wave-guide structure, fiber NA, absorption coefficient, etc. are optional.

Doping Components

Yb, Er, Tm, Ho, Nd and other rare earth ions are optional.

03

04

Other Features

Photonic crystal fiber, core-less fiber, spot homogenization fiber, and other options are available. changjin, Endless