

1μm Passive Matching Fiber

The CJ Photonics 1μm Double Cladding Passive Matching Fiber is designed for 1μm 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 Areas

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

• Product Parameters

Parameter		Type	CJGDF-10/130	CJGDF-30/250	CJGDF-14/250	CJGDF-20/400	CJGDF-30/600	CJGDF-15/50/250-070
Optical	Operating Wavelength	nm	850-1115	850-1115	850-1115	850-1115	850-1115	800-2100
	Core NA	-	0.075±0.005	0.062±0.005	0.070±0.005	0.065±0.005	0.065±0.005	0.070±0.005
	Cladding NA	-	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46
	Core Attenuation @1200nm	dB/m	≤20.0	≤20.0	≤15.0	≤15.0	≤20.0	≤15.0
	Cladding Attenuation @1095nm	dB/m	≤15.0	≤15.0	≤15.0	≤15.0	≤20.0	≤15.0
Geometrical&Mechanical	Core Diameter	μm	11.0±1.0	30.0±2.0	14.0±1.0	20.0±1.5	30.0±3.0	15.5±1.0
	Cladding Diameter	μm	130.0±5.0	250.0±5.0	250.0±10.0	400.0±10.0	600.0±5.0	250.0±5.0
	Core-Cladding Concentricity Error	μm	≤1.0	≤1.5	≤1.0	≤1.5	≤2.0	≤2.0
	Coating Diameter	μm	245.0±10.0	395.0±15.0	395.0±15.0	550.0±15.0	750.0±20.0	400.0± 0.0
	Coating Material	-	low refractive index coating	low refractive index coating	low refractive index coating	low refractive index coating	low refractive index coating	low refractive index coating
	Matrix Material	-	silica	silica	silica	silica	silica	silica
	Proof Test	kpsi	≥100	≥100	≥100	≥100	≥100	≥100