

# Single Mode High Temperature Fiber Collimator 1310nm (Fixed/Adjustable Working Distance)



## ● Product Description

The use of high temperature resistant optical fiber, high temperature resistant manufacturing process and materials can meet the application environment of working temperature of  $-40\sim 220^{\circ}\text{C}$ . The FC/APC high temperature resistant connectors specially used for high temperature devices can ensure the stability of optical fiber docking signals in high temperature environment. The products must undergo a 48-hour  $220^{\circ}$  high



temperature reliability test before leaving the factory to ensure the reliability of the devices in long-term working in high temperature environment

## ● Product features

Low insertion loss; high collimation accuracy; high stability structure; multi-interface configuration; environmental adaptability

## ● Part Number

MP-NIR-CLM-1310-0.44-0.22-FA

## ● Application area

Optical Communication Systems | Fiber Optic Sensing | Laser Technology | Precision Measurement | Biomedical Engineering

## ● Core parameters

Working Wavelength	Outlet Spot	Beam Divergence
1310nm	0.44mm	0.22°



## ● General Parameters

### General Parameters

Working wavelength	Band width	Working distance	Output spot	Beam divergence	Package diameter	Connector	Exit loss	Return loss	Mode field diameter
1310nm	± 20nm	100mm	0.44 mm	0.22°	4.0mm	FC/APC	≤ 0.5dB	≥ 55dB	9.2 ± 0.4um
1310nm	± 20nm	300mm	0.81 mm	0.13°	4.0mm	FC/APC	≤ 0.5dB	≥ 55dB	
1310nm	± 20nm	1000m	1.27 mm	0.10°	4.0mm	FC/APC	≤ 0.5dB	≥ 55dB	
1550nm	± 20nm	100mm	0.50 mm	0.26°	4.0mm	FC/APC	≤ 0.5dB	≥ 55dB	10.4 ± 0.5um
1550nm	± 20nm	300mm	0.92 mm	0.14°	4.0mm	FC/APC	≤ 0.5dB	≥ 55dB	
1550nm	± 20nm	1000m	1.45 mm	0.08°	4.0mm	FC/APC	≤ 0.5dB	≥ 55dB	



1654nm	± 20nm	100mm	0.52 mm	0.26°	4.0mm	FC/AP C	≤ 0.5dB	≥ 55dB
1654nm	± 20nm	300mm	0.96 mm	0.14°	4.0mm	FC/AP C	≤ 0.5dB	≥ 55dB
1654nm	± 20nm	1000m m	1.50 mm	0.08°	4.0mm	FC/AP C	≤ 0.5dB	≥ 55dB

Beam waist spot diameter: Take the Gaussian beam  $1/e^2$ , and select the theoretical calculated value of single-mode optical fiber of each wavelength.

Packaging materials and other optical fiber connector types can be customized