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 -40~220°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° 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

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Working wavelength	Bandwidth	Working distance	Outlet spot	Beam divergence	Package diameter	Connertor	Exit loss	Return loss	Mode field diameter
1310nm	±	100mm	0.44m	0.22°	4.0mm	FC/AP	⩽	⩾	9.2 ±

	20nm		m			C	0.5dB	55dB	0.4um
1310nm	± 20nm	300mm	0.81m m	0.13°	4.0mm	FC/APC	⩽ 0.5dB	⩾ 55dB	
1310nm	± 20nm	1000mm	1.27m m	0.10°	4.0mm	FC/APC	⩽ 0.5dB	⩾ 55dB	
1550nm	± 20nm	100mm	0.50m m	0.26°	4.0mm	FC/APC	⩽ 0.5dB	⩾ 55dB	
1550nm	± 20nm	300mm	0.92m m	0.14°	4.0mm	FC/APC	⩽ 0.5dB	⩾ 55dB	
1550nm	± 20nm	1000mm	1.45m m	0.08°	4.0mm	FC/APC	⩽ 0.5dB	⩾ 55dB	10.4 ± 0.5um
1654nm	± 20nm	100mm	0.52m m	0.26°	4.0mm	FC/APC	⩽ 0.5dB	⩾ 55dB	
1654nm	± 20nm	300mm	0.96m m	0.14°	4.0mm	FC/APC	⩽ 0.5dB	⩾ 55dB	
1654nm	± 20nm	1000mm	1.50m m	0.08°	4.0mm	FC/APC	⩽ 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