

1550nm High Temperature Fiber Collimator, SM, Bandwidth $\pm$ 20nm



● Product Description

The high-temperature fiber collimator uses high-temperature resistant optical fiber, high-temperature resistant manufacturing process and materials, which can meet the application environment of working temperature of -40~220℃.

The FC/APC high-temperature resistant connectors specially used for high-temperature devices ensure the stability of the optical fiber docking signal in high-temperature environment. The product must undergo a 48-hour 220 ° high-temperature reliability test before leaving the factory to ensure the reliability of the device in long-term working in high-temperature environment.

- **Product features**

High temperature resistance、 High reliability

- **Part Number**

MP-CLM-1550-20-SF-PA

- **Application area**

Fiber Optic Devices

- **Core parameters**

Wavelength	Bandwidth	Fiber type	Connector
1550nm	±20nm	SM	FC/APC

● General Parameters

Main Parameters:

wavelength	bandwidth	working distance	output beam size	Divergence angle	package	Insertion loss	Return loss	Mode Field Diameter	Fiber Type
1310nm	$\pm 20\text{nm}$	$\leq 300\text{mm}$	0.81mm	2.3mrad	$\Phi 3.4\text{mm}$	$\leq 0.6\text{dB}$	$\geq 55\text{dB}$	$9.2 \pm 0.4 \mu\text{m}$	9/125 Polyimide coating
		300-1000mm	1.27mm	1.7mrad	$\Phi 4.0\text{mm}$	$\leq 0.9\text{dB}$			
		10mm	0.6mm	20mrad	$\Phi 3.4\text{mm}$	$\leq 0.5\text{dB}$	$\geq 30\text{dB}$	$50 \pm 2.5 \mu\text{m}$	50/125 Polyimide coating

		10mm	0.75mm	24mrad	Φ 3.4mm	$\leq$ 0.6 dB	$\geq$ 30dB	62.5 $\pm$ 2.5 μ m	62.5/125 Polyimide coating
1550nm	$\pm$ 20nm	$\leq$ 300mm	0.92mm	2.4mrad	Φ 3.4mm	$\leq$ 0.6 dB	$\geq$ 55dB	10.4 $\pm$ 0.5 μ m	9/125 Polyimide coating
		300-1000mm	1.45mm	1.4mrad	Φ 4.0mm	$\leq$ 0.9 dB			
		10mm	0.6mm	20mrad	Φ 3.4mm	$\leq$ 0.5 dB	$\geq$ 30dB	50 $\pm$ 2.5 μ m	50/125 Polyimide coating

		10mm	0.75mm	24mrad	Φ 3.4mm	$\leq$ 0.6 dB	$\geq$ 30dB	62.5 $\pm$ 2.5 μ m	62.5/125 Polyimide coating
1650nm	$\pm$ 20nm	$\leq$ 300mm	0.96mm	2.4mrad	Φ 3.4mm	$\leq$ 0.6 dB	$\geq$ 55dB	10.4 $\pm$ 0.5 μ m	9/125 Polyimide coating
		300-1000mm	1.5mm	1.4mrad	Φ 4.0mm	$\leq$ 0.9 dB			

Appendix 1: Optional Configuration Table

High temperature fiber collimator	Optional Configuration
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Product name	Type	Central wavelength	Bandwidth	Working distance	Connectors	Pigtail	Reserve optional configuration
FCT:High Temperature Fiber Collimator	S:Single Mode	31:1310 nm	A:±20m	F:Fixed working distance	A:FC/APC	Y:With pigtail	
	M:Multimode	55:1550 nm		V:Variable working distance			
		65:1650 nm					

Appendix 2: Model and Part Number Comparison Table

Part Number	Specification
MP-CLM-1310-20-SF-PA	1310nm High temperature fiber collimator, single mode, bandwidth $\pm 20\text{nm}$, variable working distance, FC/APC, with pigtail
MP-CLM-1310-20-MF-PA	1310nm High temperature fiber collimator, multimode, bandwidth $\pm 20\text{nm}$, variable working distance, FC/APC, with pigtail
MP-CLM-1550-20-SF-PA	1550nm High temperature fiber collimator, single mode, bandwidth $\pm 20\text{nm}$, variable working distance, FC/APC, with pigtail
MP-CLM-1550-20-MF-PA	1550nm High temperature fiber collimator, multimode, bandwidth $\pm 20\text{nm}$, variable working distance, FC/APC, with pigtail
MP-CLM-1650-20-SF-PA	1650nm High temperature fiber collimator, single mode, bandwidth $\pm 20\text{nm}$, variable working distance, FC/APC, with pigtail