

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 $-40\sim 220\text{ }^{\circ}\text{C}$. 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:

wavele ngth	bandw idth	working distance	outp ut	Diverg ence	pack age	Insert ion	Ret urn	Mode Field	Fiber Type
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			beam size	angle		loss	loss	Diameter	
1310nm	$\pm 20\text{nm}$	$\leq 300\text{mm}$	0.81mm	2.3mrad	$\Phi 3.4\text{mm}$	$\leq 0.6\text{ dB}$	$\geq 55\text{dB}$	$9.2 \pm 0.4\text{ }\mu\text{m}$	9/125 Polyimide coating
		300-1000mm	1.27mm	1.7mrad	$\Phi 4.0\text{mm}$	$\leq 0.9\text{ dB}$	B		
		10mm	0.6mm	20mrad	$\Phi 3.4\text{mm}$	$\leq 0.5\text{ dB}$	$\geq 30\text{dB}$	$50 \pm 2.5\text{ }\mu\text{m}$	50/125 Polyimide coating
		10mm	0.75mm	24mrad	$\Phi 3.4\text{mm}$	$\leq 0.6\text{ dB}$	$\geq 30\text{dB}$	$62.5 \pm 2.5\text{ }\mu\text{m}$	62.5/125 Polyimide coating

1550nm	±20nm	≤300mm	0.92mm	2.4mrad	Φ3.4mm	≤0.6 dB	≥55dB	10.4±0.5um	9/125 Polyimide coating
		300-1000mm	1.45mm	1.4mrad	Φ4.0mm	≤0.9 dB	B		
		10mm	0.6mm	20mrad	Φ3.4mm	≤0.5 dB	≥30dB	50±2.5 um	50/125 Polyimide coating
		10mm	0.75mm	24mrad	Φ3.4mm	≤0.6 dB	≥30dB	62.5±2.5um	62.5/125 Polyimide coating
1650nm	±20nm	≤300mm	0.96mm	2.4mrad	Φ3.4mm	≤0.6 dB	≥55dB	10.4±0.5um	9/125 Polyimide

		300-100	1.5m	1.4mrad	Φ	$\leq$			mid
		0mm	m	d	4.0m	0.9 d			coatin
					m	B			g

Appendix 1: Optional Configuration Table

High temperat ure fiber collimato r	Optional Configuration						
Product name	Type	Central wavelen gth	Bandwi dth	Workin g distanc e	Connect ors	Pigt ail	Reserve optional configurat ion
FCT:High Temperat ure Fiber Collimato r	S:Single Mode	31:1310 nm	A:±20m	F:Fixed workin g distanc e	A:FC/AP C	Y:Wi th pigt ail	
	M:Multim ode	55:1550 nm		V:Varia ble			

				workin g distanc e			
		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