1650nm High Temperature Fiber Collimator, SM, Bandwidth ± 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-1650-20-SF-PA

Application area

Fiber Optic Devices

Core parameters

Wavelength	Bandwidth	Fiber type	Connector
1650nm	±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	±20nm	⩽300mm	0.81mm	2.3mrad	Φ3.4mm	⩽0.6 dB	⩾55dB	9.2±0.4 um	9/125 Polyimide coating
		300-1000mm	1.27mm	1.7mrad	Φ4.0mm	⩽0.9 dB			
		10mm	0.6mm	20mrad	Φ3.4mm	⩽0.5 dB	⩾30dB	50±2.5 um	50/125 Polyimide coating

		10mm	0.75 mm	24mrad	Φ 3.4mm	⩽ 0.6 dB	⩾ 30dB	62.5± 2. 5um	62.5/125 Polyimide coating
1550nm	± 20nm	⩽ 300mm	0.92 mm	2.4mrad	Φ 3.4mm	⩽ 0.6 dB	⩾ 55dB	10.4± 0. 5um	9/125 Polyimide coating
		300-1000mm	1.45 mm	1.4mrad	Φ 4.0mm	⩽ 0.9 dB			
		10mm	0.6m m	20mrad	Φ 3.4mm	⩽ 0.5 dB	⩾ 30dB	50± 2.5 um	50/125 Polyimide coating

		10mm	0.75 mm	24mrad	Φ 3.4mm	⩽ 0.6 dB	⩾ 30dB	62.5± 2. 5um	62.5/125 Polyimide coating
1650nm	± 20nm	⩽ 300mm	0.96 mm	2.4mrad	Φ 3.4mm	⩽ 0.6 dB	⩾ 55dB	10.4± 0. 5um	9/125 Polyimide coating
		300-1000mm	1.5mm	1.4mrad	Φ 4.0mm	⩽ 0.9 dB			

Appendix 1: Optional Configuration Table

High temperature fiber collimator	Optional Configuration

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 ± 20nm, variable working distance, FC/APC, with pigtail
MP-CLM-1310-20-MF-PA	1310nm High temperature fiber collimator, multimode, bandwidth ± 20nm, variable working distance, FC/APC, with pigtail
MP-CLM-1550-20-SF-PA	1550nm High temperature fiber collimator, single mode, bandwidth ± 20nm, variable working distance, FC/APC, with pigtail
MP-CLM-1550-20-MF-PA	1550nm High temperature fiber collimator, multimode, bandwidth ± 20nm, variable working distance, FC/APC, with pigtail
MP-CLM-1650-20-SF-PA	1650nm High temperature fiber collimator, single mode, bandwidth ± 20nm, variable working distance, FC/APC, with pigtail