Ultra-long distance collimating lens 905nm

(2KM focal length 250mm FC/APC)

Product Description

The optical fiber output is collimated and reshaped into a large spot, suitable for high-power, long-distance transmission, and pulsed output lasers. Within the operating range, the light exhibits excellent collimation, with a uniform energy distribution and sharp, clear edges. The design adopts a multi-lens series with air gaps, compatible with single-mode, multi-mode, and large-core optical fibers, enabling functions such as remote sensing, illumination, and interference.

Product features

Standard fiber optic input with FC or SMA connectors、 Collimated space beam output、 Suitable for wavelengths in the range of 405 nm to 1.55 μm、 Collimation distance suitable for ⩾2 km、 Beam energy concentration、 Multi-lens design with dual-sided antireflection coating on lenses to improve transmission efficiency

Part Number

MP-CLM-905-110-2-M

Application area

LiDAR | Free-space optical communication | Industrial processing and measurement | Defense and security | Scientific research and experimentation

Core parameters

Wavelength	Transmission Distance	Fiber Type	Connector
905m	2km	62.5/125	FC/APC

General Parameters

525nm Ultra-long Distance Collimating Lens						
Working	Output	Beam	Effective	Transmissio	Fiber	Connector

Wavelength	Spot Diameter	Divergence Angle	Focal Length mm	n Distance	Type	
525±20nm	80	0.20mrad	250	2km	62.5/125	FC/APC FC/PC SMA905
	100	0.15mrad	320	3km		
	150	0.10mrad	400	5km		
905nm Ultra-long Distance Collimating Lens						
Working Wavelength	Output Spot Diameter	Beam Divergence Angle	Effective Focal Length mm	Transmission Distance	Fiber Type	Connector
905±20nm	80	0.20mrad	250	2km	62.5/125	FC/APC FC/PC SMA905
	100	0.15mrad	320	3km		
	150	0.10mrad	400	5km		
1550nm Ultra-long Distance Collimating Lens						
Working Wavelength	Output Spot Diamete	Beam Divergence Angle	Effective Focal Length m	Transmission Distance	Fiber Type	Connector

	r		m			
1550±20nm	80	0.20mrad	250	2km	62.5/125	FC/APC
	100	0.15mrad	320	3km		FC/PC
	150	0.10mrad	400	5km		SMA905