

大模场光子晶体光纤 Large mode area photonic crystal fiber

产品描述

Product description

我们的大模场光子晶体光纤可以在宽波段内实现低损耗单模传输。

Our large mode area photonic crystal fiber can realize low loss single-mode transmission window in wide band.

产品特点

Product characteristics

低传输损耗

Low transmission loss

低非线性

Low nonlinear coefficient

单模

Single mode

产品应用

Product application

宽带激光传输

Broadband laser transmission

高功率激光传输

High power laser delivery



产品规格

Fiber specifications

光学特性 Optical specifications

Model	LMA5	LMA10	LMA15	LMA20	LMA25	
Single-mode cut-off wavelength	none	none	none	none	none	
Loss	@532nm	<20 dB/km	<40 dB/km	<30 dB/km	—	—
	@632nm	<10 dB/km	<20 dB/km	<20 dB/km	<30 dB/km	—
	@780nm	—	—	—	<10 dB/km	—
	@1064nm	<5 dB/km	<5 dB/km	<8 dB/km	<8 dB/km	<8 dB/km
Mode field diameter (1/e ²)	@532nm	4.5±0.5 μm	8.4±1.0 μm	12.5±1.5 μm	—	—
	@780nm	—	—	—	16.4±1.5 μm	20.6±2.0 μm
	@1064nm	4.7±0.5 μm	8.8±1.0 μm	12.8±1.5 μm	16.5±1.5 μm	20.9±2.0 μm
	NA@1064nm	0.2±0.02	0.11±0.02	0.07±0.02	0.06±0.02	0.05±0.02

物理特性 Physical properties

Model	LMA5	LMA10	LMA15	LMA20	LMA25
Core diameter	5.0±0.5 μm	10.1±0.5 μm	15.1±0.8 μm	19.9±1 μm	25±1 μm
Cladding diameter	125±2 μm	125±2 μm	230±5 μm	230±5 μm	258±5 μm
Coating diameter	245±10 μm	245±10 μm	350±10 μm	350±10 μm	350±10 μm