

Hexagonal Microstructured Optical Fiber for Supercontinuum White Light Source Core Diameter: 5.0 ± 0.3 μm



Product Description

Supercontinuum white light sources are based on the broadening of pulse spectrum produced by nonlinear effects. Compared with other materials or ordinary optical fibers, the microstructured optical fiber designed by us for supercontinuum white light sources has excellent dispersion adjustment ability and can obtain efficient optical frequency conversion. The light source system can be widely used in spectral analysis, optical fiber testing, sensing and other fields.

Part Number

MOF_SC_SCP5/150/270

Product features

High-temperature resistance . Durability, high bending strength, and sealing









performance . Enables the welding of embedded optical fibers, fiber bundles, and pigtails into high-vacuum environments

Application area

High-temperature environments , Harsh chemical environments , Nuclear radiation environments , High-power laser transmission , Medical applications , Optical fiber bundle welding , Material characterization, spectral analysis , Confocal imaging, optical coherence tomography , Biological application technology research, flow cytometer

Parameters

Spec

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PN#	MOF_SC_SCP5/150/270
Core Diameter:	5.0±0.3 μm
Microstructure Period:	$3.3\pm0.1~\mu$ m
Zero scatter point:	1.06 μ m customizable
Cladding diameter:	150±3 μm
Coating diameter:	270±3 μm
Material:	Pure quartz
Coating material:	Polyimide/acrylic resin
Screening intensity:	100 kpsi
Microstructure Air Hole Diameter:	1.6 \pm 0.1μm

Geometric

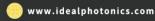
Delivery length:	1 - 500 m
Cladding diameter:	150 \pm 1 μ m
Coating diameter:	270 \pm 5 μ m
Core cladding concentricity	≤3 μm
Cladding non-circularity	≤0.5
Screening intensity:	100 kpsi

Light source system

	Supercontinuum light source
Popotition rate:	15~30 kHz
Repetition rate:	
Spectral broadening:	450~2400 nm





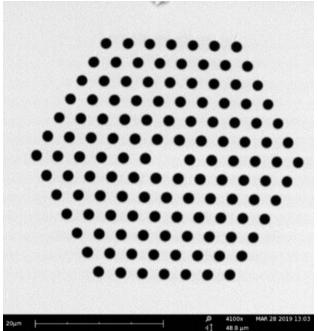


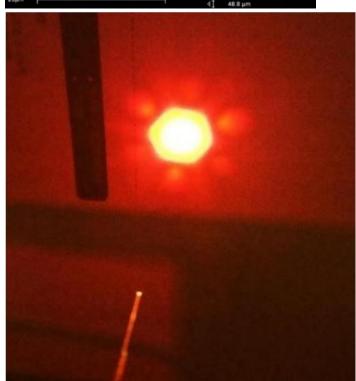


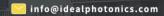


Total output power:	>200 mW
Pulse width:	<2 nm
Beam quality TEM00:	M2<1.1

Structure





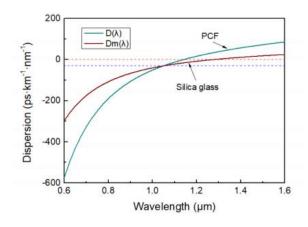


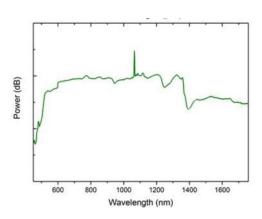




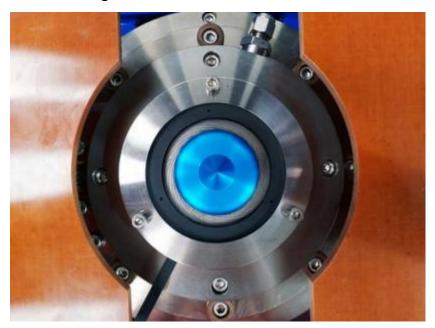


Super continuum Spectrum Generation Microstructured Optical Fiber and Its Dispersion Curve





Manufacturing Platform



Ordering info

PN#MCS1550 Hexagonal Microstructured Optical Fiber for Supercontinuum White Light Source



