

10/130 Ytterbium-Doped LMA Double Clad Fiber

Featuring the latest Gen VIII glass composition, Nufern's large mode area (LMA) and PM-LMA Ytterbium-doped double clad fibers are ideally suited for applications spanning military, industrial and medical including linearly polarized fiber lasers and amplifiers. LMA Yb-doped fibers enable efficient, compact, diode pumped fiber sources that are an attractive alternative to traditional solid-state lasers. This fiber features a single mode large core/cladding ratio with a low NA and is ideally suited for both CW and pulsed laser applications.

Typical Applications	Features & Benefits	
 Pulsed fiber lasers and amplifiers Material processing LIDAR Non-linear optics / frequency doubling 	 NuCOAT fluoroacrylate coating — Greater fiber durability in extreme environmental operating & storage conditions LMA core design and short amplifier length — Useful for generating high peak powers Easy to maintain single mode LP01 beam through fiber & components PANDA-style stress structure for increased birefringence — Superior optical performance and uniformity All fiber proof tested to > 100 kpsi — Critical for ensuring long term reliability when coiling 	
Optical Specifications	PLMA-YDF-10/125-VIII	LMA-YDF-10/130-VIII
Operating Wavelength Core NA First Cladding NA (5%) Cladding Attenuation Cladding Absorption Birefringence	1060 – 1115 nm 0.075 ≥ 0.460 ≤ 15.0 dB/km @ 1095 nm 1.60 ± 0.20 dB/m at 915 nm 4.80 dB/m near 976 nm nominal 3×10^{-4}	1060 – 1115 nm 0.075 ≥ 0.46 ≤ 15.0 dB/km @ 1095 nm 1.30 ± 0.20 dB/m at 915 nm 3.90 dB/m near 975 nm N/A
Geometrical & Mechanical Specifications		
Cladding Diameter Cladding Diameter (flat-to-flat) Core Diameter Coating Diameter Core/Clad Offset	125.0 ± 2.0 μm N/A 11.0 ± 1.0 μm 245.0 ± 15.0 μm ≤ 1.00 μm	N/A 130.0 ± 3.0 µm 11.0 ± 1.0 µm 245.0 ± 15.0 µm ≤ 1.00 µm

Low Index Polymer

≥ 100 kpsi (0.7 GN/m²)

Kokyo 株式会社光響 Email: info@syr Web: https://ww

Coating Material

Prooftest Level

Email : info@symphotony.com Web : https://www.symphotony.com/

Low Index Polymer

≥ 100 kpsi (0.7 GN/m²)



The precision matched fiber sets are also available - see PLMA-YDF-10/125-M; LMA YDF-10/130-M; PLMA-GDF-10/125-M and LMA-GDF-10/130-M

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Custom developed fiber (FUD) specifications are subject to change without notice. Other configurations such as alternative form factors, optimized cut-off and UV cured color coating may be available. Let us know how Nufern can assist with your requirements.