

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.

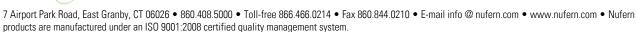
Typical Applications	Features & Benefits			
 Pulsed fiber lasers and amplifiers Material processing 	 NuCOAT fluoroacrylate coating — Greater fiber durability in extreme environmental operating & storage conditions LMA core design and short amplifier length — Useful for generating high peak powers 			
• LIDAR	Easy to maintain single mode LPO1 beam through fiber & components			
 Non-linear optics / frequency doubling 	PANDA-style stress struct	ure for increased birefringence — Superior optical performance and uniformity 100 kpsi — Critical for ensuring long term reliability when coiling		
Optical Specifications	PLMA-YDF-10/125-VIII	LMA-YDF-10/130-VIII		
Operating Wavelength	1060 – 1115 nm	1060 — 1115 nm		
Core NA	0.075	0.075		
First Cladding NA (5%)	≥ 0.460	≥ 0.46		
Cladding Attenuation	≤ 15.0 dB/km @ 1095 nm	≤ 15.0 dB/km @ 1095 nm		
Cladding Absorption	1.60 ± 0.20 dB/m at 915 nm	1.30 ± 0.20 dB/m at 915 nm		
	4.80 dB/m near 976 nm	3.90 dB/m near 975 nm		
Birefringence	nominal 3 × 10⁻⁴	N/A		

Geometrical & Mechanical Specifications

Core/Clad Offset ≤ 1.00 μm ≤ 1.00 μm Coating Material Low Index Polymer Low Index Polymer Prooftest Level ≥ 100 kpsi (0.7 GN/m²) ≥ 100 kpsi (0.7 GN/m²)	0	Low Index Polymer	Low Index Polymer	
---	---	-------------------	-------------------	--



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





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.