

25/300 Passive LMA **Double Clad Fibers**

Designed for compatibility with 25/300 Er/Yb co-doped active fibers

LMA-GDF-25/300

1550 nm

≥ 0.46

0.090

All fiber proof tested to > 100 kpsi — Critical for ensuring long term reliability when coiling

Nufern's passive series of Large Mode Area (LMA) double clad fibers are ideal for high power monolithic fiber lasers and amplifiers. These passive fibers are based on a 25 micron diameter core and 300 micron diameter clad size with a low NA (0.09) core and are designed to work well with the active Er/Yb co-doped 25/300 LMA and PLMA fibers. These fibers utilize the latest fiber design and NuCOAT™ coating technology to ensure excellent preservation of beam quality and extended operating life at the high power levels demanded by today's industrial fiber laser applications. These fibers are available in both non-PM and PANDA-style PM fibers

NuCOAT™ fluoroacrylate coating — Greater fiber durability in extreme environmental operating & storage conditions

Optimized LMA core design — Easy to maintain single mode LP01 beam through fiber & components at high power

Typical Applications

- Eye safe (1.5 µm) lasers and amplifiers
- Military and commercial lidar
- · High peak power, pulsed fiber amplifiers
- · Ultra-short pulse fiber amplifiers

Optical Specifications

Operating Wavelength (nominal) Core NA First Cladding NA (5%) **Cladding Attenuation** Birefringence

Geometrical & Mechanical Specifications

Cladding Diameter Core Diameter **Coating Diameter** Core/Clad Offset Clad Non-Circularity **Prooftest Level**

1	≤ 15.0 dB/km @ 1095 nm	≤ 15.0 dB/km @ 1095 nm
9	nominal 1.5 × 10 ⁻⁴	N/A
	300.0 ± 8.0 μm	300.0 ± 4.0 μm
	25.0 ± 2.0 µm	25.0 ± 2.0 μm
	450.0 ± 15.0 μm	450.0 ± 15.0 μm
	≤ 2.00 µm	≤ 2.00 µm
'	N/A	≤ 0.5 %
	≥ 100 kpsi (0.7 GN/m²)	≥ 100 kpsi (0.7 GN/m²)

Features & Benefits

PLMA-GDF-25/300

1550 nm

≥ 0.46

0.090

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Designed to work with 25/300 LMA and PLMA Er/Yb co-doped active fibers

7 Airport Park Road, East Granby, CT 06026 • 860.408.5000 • Toll-free 866.466.0214 • Fax 860.844.0210 E-mail info @ nufern.com • www.nufern.com Nufern products are manufactured under an ISO 9001:2008 certified guality management system.



Standard specifications and design parameters are listed above. 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.