

DCF-TM-22/400P

Tm-Doped Double Clad Fiber

CorActive's Tm-doped double clad fibers offer high doping concentrations and high QCE values that ensure minimum fiber length, minimum pump power and reduced non-linearities.

CorActive's DCF-TM-22/400P Tm-doped double clad fiber features highly efficient energy transfer that makes this product the ideal solution for the design of high-energy LIDAR or high-power eye-safe fiber lasers and amplifiers.

SPECIFICATIONS

Optical

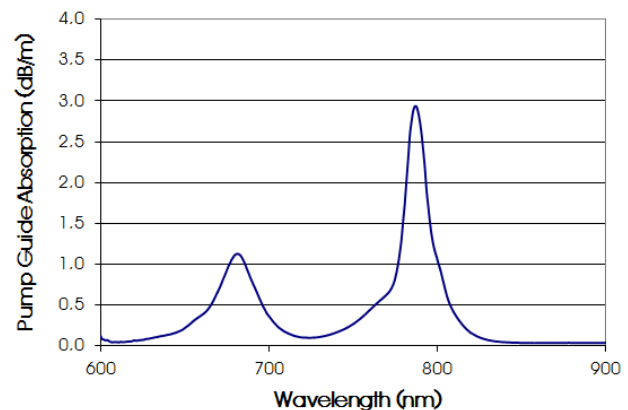
Clad Absorption @ 790nm	dB/m	3.0 ± 0.3
Core Numerical Aperture		0.10 ± 0.01
Clad Numerical Aperture		> 0.45

Geometrical&Mechanical

Core Diameter	μm	22 ± 2
Clad Diameter	μm	400 ± 10
Clad Geometry		Octagonal
Coating Diameter	μm	560 ± 20

PERFORMANCES

Absorption Spectra



TYPICAL APPLICATIONS

- Eye-safe fiber lasers and amplifiers
- High-energy LIDAR
- Scientific/Research
- Medical

ADVANTAGES

- Large core diameter for reduced non-linear effects in high-energy/high peak power application
- Low NA value for excellent beam quality
- Very high pump absorption allowing short fiber lengths
- Two-photon cross-relaxation effect leads to very high quantum conversion efficiency, lowering pump power requirements and reducing overall system costs

RELATED PRODUCTS

- Matched double-clad fiber:
- Matched single-clad fiber:

DCF-UN-16/400-10
SCF-UN-16/400-10



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Specialty Optical Fiber Manufacturer