

CorActive Thulium Doped Fibers For Eye-Safe Fiber Lasers & Amplifiers

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 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.

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

APPLICATIONS

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

SPECIFICATIONS

Parameters	Specifications
Optical Specifications	
Clad Numerical Aperture	> 0.45
Material Specifications	
Core Material	Tm Doped Silica Glass
Inner Clad Material	Silica Glass
Outer Clad Material	Fluoroacrylate
Coating Material	Acrylate
Geometrical and Mechanical Specifications	
Clad Geometry	Octagonal ¹
Proof Test Level (kpsi)	100 ²

¹ Unless otherwise specified. Consult product datasheet to verify cladding geometry of specific model

² The specified proof test level is for cladding dimensions of 130um or less. Consult specific product datasheet for proof test levels of other cladding dimensions

AVAILABLE MODELS

Thulium (TM) Doped Double-Clad Fibers						
Model	Core Diameter (µm)	Clad Diameter (µm)	Core NA	Clad Absorption @ 790 nm (dB/m)	Matched Passive Double-Clad Fiber	Matched Passive Single-Clad Fiber
DCF-TM-6/125	6.0 ± 1.0	125 ± 3	0.23 ± 0.2	1.4 ± 0.3	DCF-UN-6/123-23	
DCF-TM-20/400P	20.0 ± 2.0	400 ± 15	0.11 ± 0.01	5.5 ± 1.0		

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