



Speciality Components

For Fiber Lasers and Amplifiers

ITF Technologies' speciality components are designed to enable and support fiber laser design and manufacturing. These components include Mode Field Adaptors and Cladding Mode Strippers. They all feature exceptional optical characteristics to help you achieve the best fiber laser or amplifier performance.

ITF Technologies' Mode Field Adaptors (MFA) expand the mode field of a single mode fiber to match the size of the fundamental mode (LP01) of a Large Mode Area (LMA) output fiber. This ensures maximum power transmission and minimum degradation of the signal quality (M^2). Some designs can also convey forward pump light for pulsed amplifier designs.

ITF Technologies' cladding mode strippers (CPS) are designed to absorb residual cladding pump light, ASE or escaped core modes in double clad fibers (DCF). Cladding light is absorbed from the full fiber NA of 0.46 down to the core NA. Signal Power and Beam Quality are preserved with minimal loss. Available in PM and non-PM fibers.



KEY FEATURES

MODE FIELD ADAPTORS

- High Power Transfer Efficiency
- Preservation of Modal Content
- Wavelength Insensitive
- Custom Configurations Available
- ROHS Compliant

CLADDING POWER STRIPPERS

- High Power Handling
- High Power Absorption
- Minimal Signal Loss
- ROHS Compliant

APPLICATIONS

- Fiber Lasers
- Fiber Amplifiers
- Industrial, Telecom, Medical & Research

FOR MORE INFO

Website: www.itftechnologies.com
Email: info@itftechnologies.com

Speciality Components

FOR FIBER LASERS AND AMPLIFIERS

MODE FIELD ADAPTORS (MFA)

CONFIGURATION	POWER HANDLING	NOTES
Signal-optimized	Signal up to 100 W	Standard operating bands: 1.0 um, 1.5 um and 2.0 um. Signal optimized for fundamental mode transmission and beam quality preservation. Typical fundamental mode loss: <0.5 dB.
Signal- and pump-optimized	Signal up to 100 W	
	Pump up to 50 W	
PACKAGE DIMENSIONS	60.0 x 12.0 x 6.5 mm	

CLADDING POWER STRIPPERS (CPS)

CONFIGURATION	POWER HANDLING	NOTES
Standard HP Package	Up to 50 W	Standard operating wavelengths: 790 nm to 1000 nm. Maximum signal insertion loss: <0.1 dB. 300 W version currently available - product in active development.
		HP PACKAGE DIMENSIONS 60.0 x 12.0 x 6.5 mm

ADDITIONAL INFORMATION

Compatible with most standard fibers.
Power handling is provided for general reference only.
Polarization-maintaining versions (PM) available on demand.
Custom designs and prototypes also available on demand.

Last revised: January 2023

ORDERING INFO

ITF Technologies inc.
400 Montpellier Blvd., Montreal, QC H4N 2G7
Tel: +1 514 748 4848
Fax: +1 514 744 2080
Toll Free: +1 888 922 1044
www.itftechnologies.com
info@itftechnologies.com