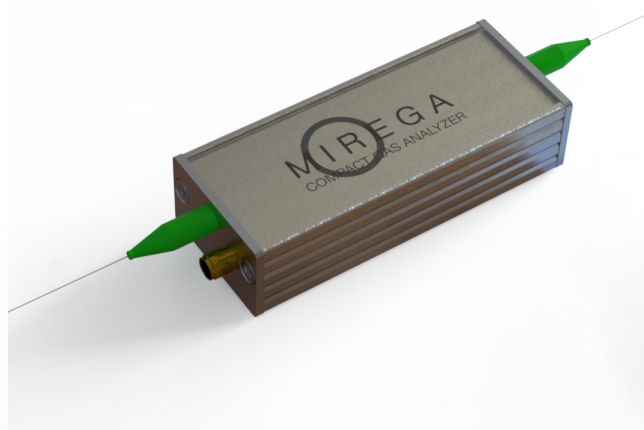


Fiber Fabry-Perot Tunable Filter

Based on a patented technology and years of research, our technology come from a fiber-based Fabry-Perot microcavity with exceptional properties. Our laser machined-mirrors enable extremely high finesse ($F > 100.000$).

Its unmatched precision allows the filtering of precise wavelengths, eliminating interference like never before. This breakthrough technology empowers innovation across industries by enabling superior optical performance and control.



Mirega's Fiber Fabry-Perot Tunable Filter features unrivalled performances:

FINESSE: UP TO 100 000

Mirega provides filters with an unrivalled wavelength selectivity based on a finesse of up to 100 000 !

TUNING RATE : UP TO 10 KHz

Need a fast tunable filter ?
With an impressive 10 kHz per FSR, speed is not anymore a limit using Mirega's filter.

FSR: 300 GHz -15 THz

Mirega provides a very wide range of FSR from 300 GHz to 15 THz as a standard. OEM and custom filters can be provided within an even larger range.

WAVELENGTH : 500 - 2500 NM

Mirega's filter can effectively operate with a large range of 200 nm with the center wavelength that can be chosen from 500 to 2500nm.

CUSTOM AND OEM

Custom and OEM filters are available upon request.

They are customizable in a wide range of parameters such as:

- wavelength: from 500 to 2500nm
- free spectral range: from 150 GHz to 30 THz
- finesse: from 1 000 to 100 000
- low voltage control and with or without fibers connectors

STANDARD PERFORMANCE

Optical			
Wavelength range	1460 - 1660 nm		
Finesse (at center wavelength)	30 000		
Free Spectral Range	15 THz	1.5 THz	300 GHz
Filter bandwidth	500 MHz	50 MHz	10 MHz
Maximum input power	2 mW		

Electrical	
Tuning voltage / FSR	< +/-180 V
Maximum tuning rate / FSR	10 kHz
Maximum tuning voltage	+/- 320 V
Capacitance	< 10 nF

Mechanical and environmental	
Dimension	10 x 4 x 3 cm
Weight	160 g
Fibers	monomode with FC/APC connectors
Operating temperature	5 to 35 °C
Storage temperature	-10 to 60°C

ORDER TODAY

Need more information?

Quote, technical note, test unit, simulation, external size drawings, 3D files or any other requests, we have more information to share.

Contact us for one-to-one guidance and technical support.

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