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TECHNOLOGY GROUP

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FIBERA, INC.
3350 Scott Boulevard, Bldg. 56
Santa Clara, CA 95054
Tel: 408-492-9555
Fax: 408-492-9559
http://www.fiberainc.com/

FABRY-PEROT ITU FILTER

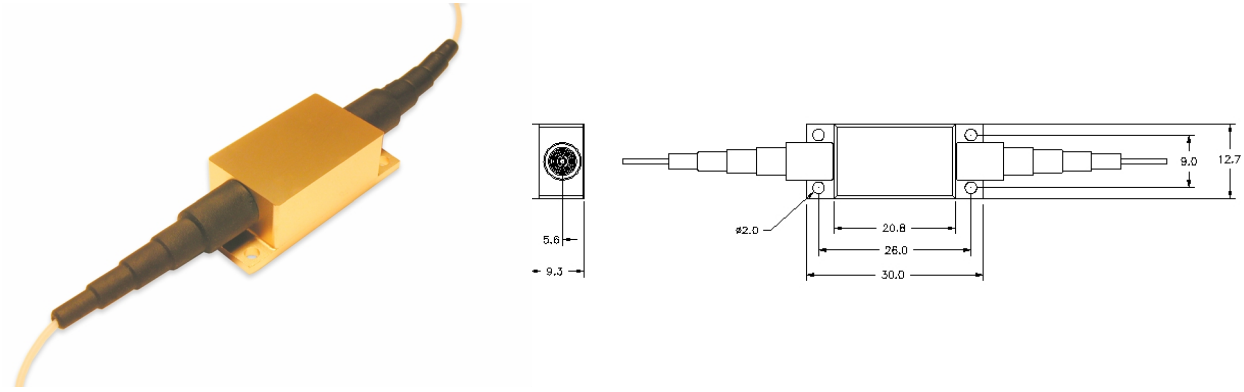
**Patents pending*

- **Multi-Channel capability**
- **Superior accuracy**
- **Hermetically sealed to ensure long term reliability**
- **Athermal, no temperature control / compensation**
- **Compact physical size**

The Fibera **Fabry-Perot ITU Filter (FPIF)** series is a compact, high accuracy Fabry-Perot transmission filter based on a newly developed, proprietary technology. These filters aligned to 25, 50 or 100GHz ITU grid, exhibit absolute accuracy of ± 1.25 GHz over operation temperature, grid alignment, operating wavelength range and aging.

The Fibera FPIF is hermetically sealed and is insensitive to environmental temperature variations. Hermetic sealing not only ensures the accuracy of laser wavelength, but also the reliability of the device.

The Fibera FPIF is ideal for DWDM channel monitoring, wavelength locking and tunable filter applications. Custom tuning option is available.

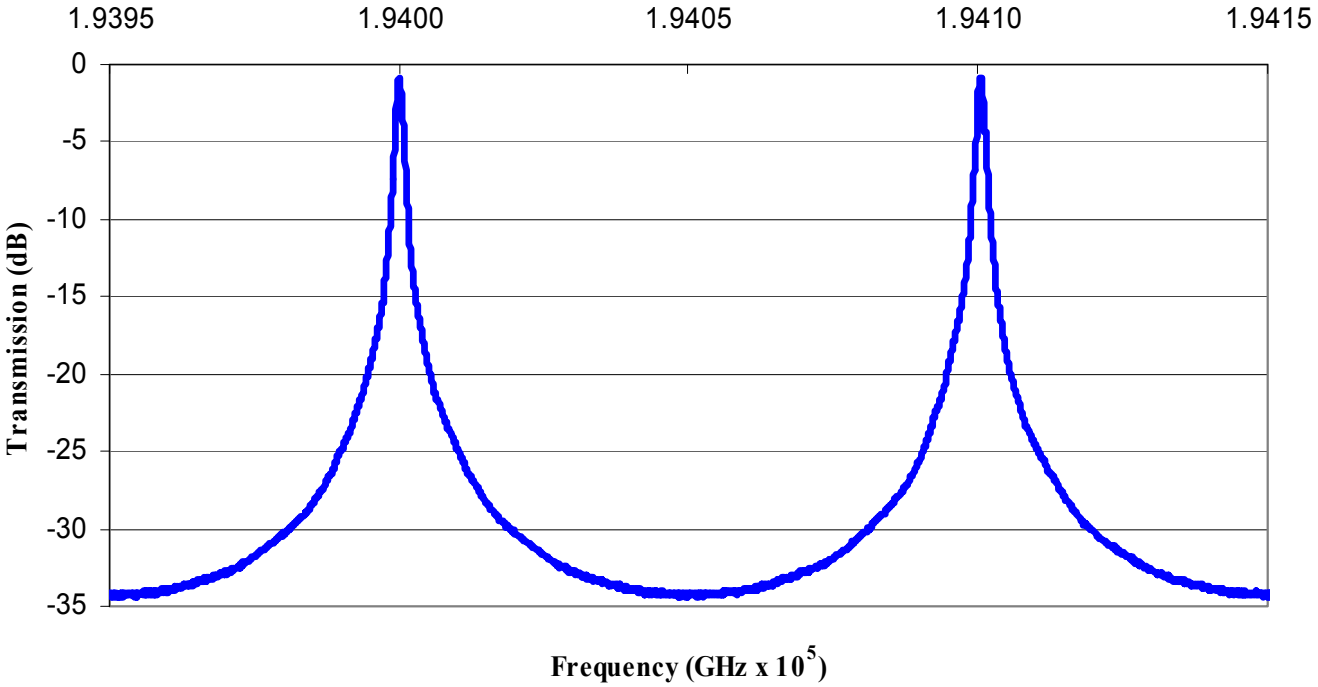


Mechanical Dimensions

SPECIFICATIONS

Parameters	Units	Value					
		100GHz Opt. # 1	100GHz Opt. # 2	50GHz Opt. # 1	50GHz Opt. # 2	50GHz Opt. # 3	25GHz
Technology		Advanced Etalon					
Wavelength Range (ITU grid)	nm	1525-1620					
Center Channel Accuracy	GHz	≤ ± 1.25					
Thermal Stability	GHz	± 0.8	± 0.8	± 0.4	± 0.4	± 0.4	± 0.4
Finesse		75	7	70	19	3.8	50
Contrast	dB	34 ± 3	13.5 ± 1	33 ± 3	21 ± 2	8 ± 1	30 ± 3
Optical Return Loss	dB	≥ 20	≥ 20	≥ 15	≥ 15	≥ 20	≥ 7
Insertion Loss at Peak (C+L Band)	dB	≤ 3.0	≤ 1.0	≤ 3.0	≤ 1.5	≤ 1.5	≤ 3.0
Storage Temperature	°C	-40 to +85					
Polarization Dependent Accuracy	GHz	< 0.1	< 0.4	< 0.1	< 0.4	< 0.4	< 0.1
Max. Operating Power	mW	300					
Operating Temperature	°C	0 to +70					
Dimensions	mm	30.0 x 12.7 x 10.0					

Performance Spectrum of 100GHz FPIF (Option #1)



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We buy equipment

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