

Compact tunable dual Fabry-Perot filter

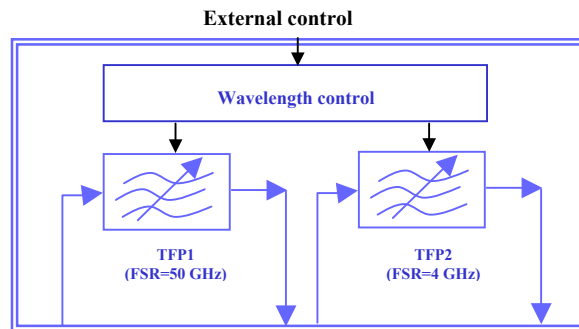
Key design features include:

- Compact, high performance dual Fabry-Perot *tunable filter* with low insertion loss and high contrast ratio
- Good wavelength stability and very narrow spectral width suitable for spectroscopy, optical sensing and Telecom
- Operating within optical “S,C and L” -bands
- Filter’s free scanning range (50 GHz and 4 GHz)
- Built-in internal and external wavelength control.

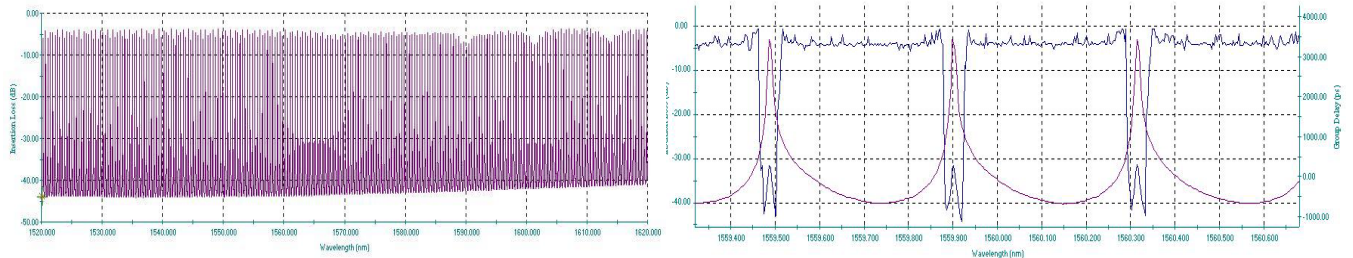


Central wavelength of each filter can be continuously tuned using internal controllers or an external voltage source (DAC). Each tunable filter has separate FC/APC connectorized optical input/output ensuring low level of back-reflected signal.

Optical schematics



Typical band-pass spectra



Specifications:

Description	Min	Typical	Max	Unit
Operating wavelength range	1420-1670			nm
Free spectral range (Filter 1)	45	50	70	GHz
Finesse	100	120	130	-
Insertion loss at 1555 nm @ 25C, dB	3.8	4	5	dB
Return loss, dB	>40	55	60	dB
Free spectral range (Filter 2)	3	4	5	GHz
Dimensions	150 × 180 × 50			mm
Tuning voltage per FSR	9	12	15	V
Maximum voltage	35			V
Polarization dependant loss	<0.1	0.15	0.25	dB
Number of optical inputs/outputs	1	2	3	-
Connector type	FC/APC			
Fiber type	9/125/900			um
Operating temperature	15	25	35	°C