

Tunable Technologies: Fiber Fabry-Perot and Chameleon Thin Film



Characteristic	FIBER FABRY-PEROT	CHAMELEON THIN-FILM
Applications	<ul style="list-style-type: none"> Optical channel analysis Laser & amplifier noise suppression Tunable ring lasers Tunable laser tracking Ultra dense WDM channel drop Rapid wavelength interrogation 	<ul style="list-style-type: none"> Channel selection Optical performance monitoring Optical add/drop or add & drop Tunable narrow-band source generation
Bandpass Profile	Narrow peak, Lorentzian profile (Fig.1 illustrates the high-resolution high-contrast transmission profile)	Flat top, steep sides (Fig.2 illustrates the flat-top and sharp band-edge transmission profile)
Full Transmission Profile	Airy Function, customized periodic resonance spacing, comb filter	Single, narrow bandpass within very wide resonance spacing
Number of ports	2 - Input/Drop (capture express channel with circulator)	2 - Input/Drop 3 - Input/Drop/Express or Add/Express/Output 4 - Input/Drop/Express/Add
Calibration	External wavelength reference required	Internally calibrated
Modes of Operation	Spectrum scan Channel lock	Spectrum scan Wavelength set

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Figure 1

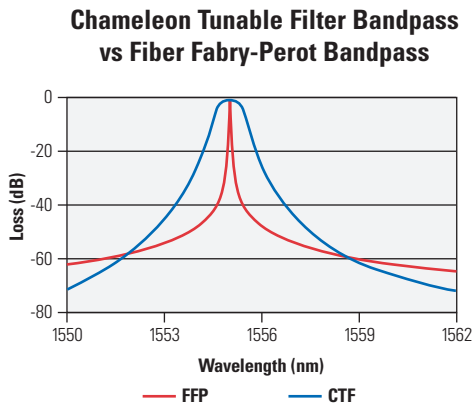


Figure 1: Illustration of sharp FFP transmission profile: FFP-TF Finesse 4000, FSR 40nm and CTF-TF for 100GHz Channel Spacing.

Figure 2

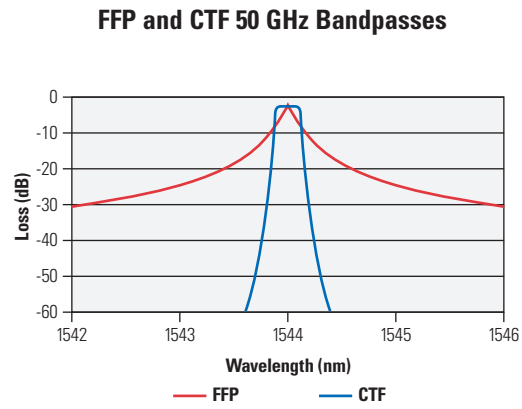


Figure 2: Illustration of nearly square-top band-pass of CTF and FFP: FFP-TF Finesse 650, FSR 160 nm and CTF-TF for 50 GHz Channel Spacing.

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