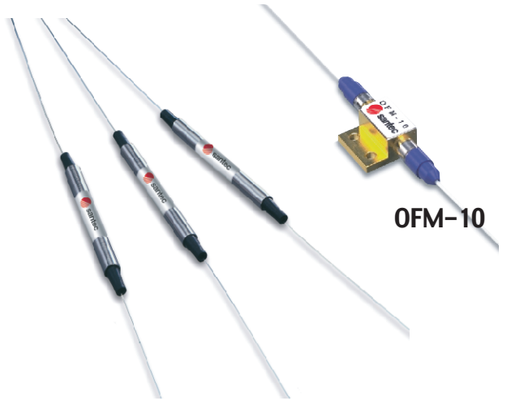
In-Line Optical Filter
OFM-10/15



OFM-15

The OFM-10/15 is a compact and reliable bandpass filter module. It uses Santec's proven interference filter technology and quality manufacturing techniques to provide a high isolation with long-term reliability and minimal loss. A wide range of filters are available, including narrow bandwidth filters for individual channel filtering of both 100GHz and 200GHz spaced systems, and wide bandwidth filters for C and L band separation and similar applications.

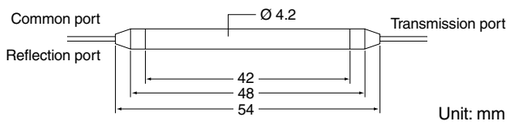
Features

- Excellent thermal stability <1pm / °C
- Wide operating wavelength range
- Low passband flatness (multi-cavity filters)
- Compact size suitable for system integration

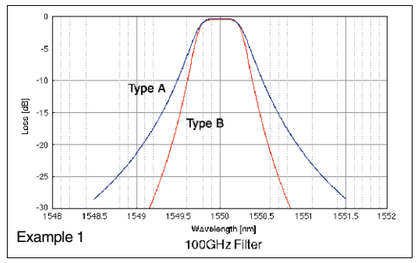
Applications

- Specific band or group - channel filtering
- Noise clean-up filter
- ASE noise reduction in transmitter

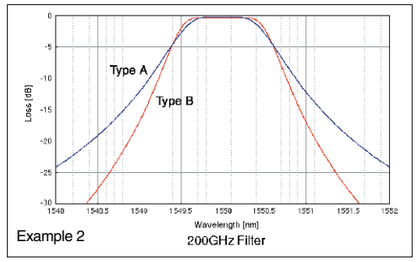
Dimensions



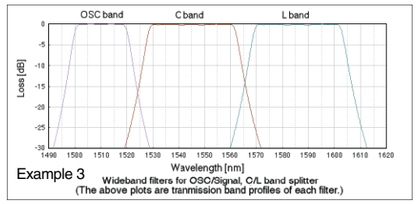
Filter Selection 1 (Multi - Cavity Structure)



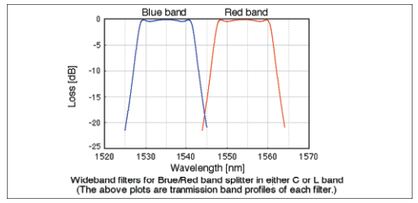
Example 1 100GHz Filter



Example 2 200GHz Filter



Example 3
Wideband filters for OSC/Signal, C/L band splitter
(The above plots are tranmission band profiles of each filter.)

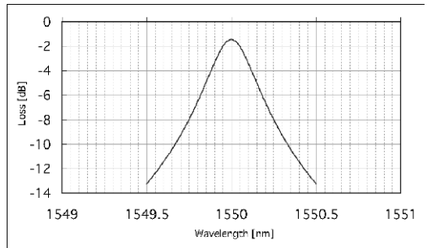


Wideband filters for Brue/Red band splitter in either C or L band
(The above plots are tranmission band profiles of each filter.)

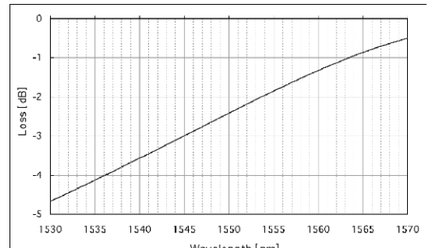
Typical Performance

Parameter		Unit	Typical Value	Notes
Center Wavelength		nm	As specified within 1290~1630	
Wavelength Accuracy	Max.	nm	± 0.05	
Thermal Stability	Typ.	pm/°C	0.8	
Filter Cavity			Single / Multiple	Determined by passband and isolation
Insertion Loss	Max.	dB	1.0	Depends on filter cavity structure
Return Loss	Min.	dB	40	
PDL	Max.	dB	0.1	
PMD	Max.	psec	0.1	
Operating Temperature Range		°C	0 to + 70	
Fiber			SMF, 0.9 mm Ø	

Filter Selection 2 (Single - Cavity Structure)



Example 5 0.3 nm Bandwidth single cavity filter



Example 6 Slope Filter

Ordering Code