Ultra-Narrow Bandwidth-Variable Tunable Filter

CVF-300CL / BVF-300CL

- Unprecedented sharpness: 1500dB/nm roll-off
- Unprecedented narrowness: min. bandwidth 30pm (3.7GHz)
- Flexible: both bandwidth- and wavelength-tunable



CVF-300CL (Programmable)

1550nm | Power Monitor | Peak Search | Remote

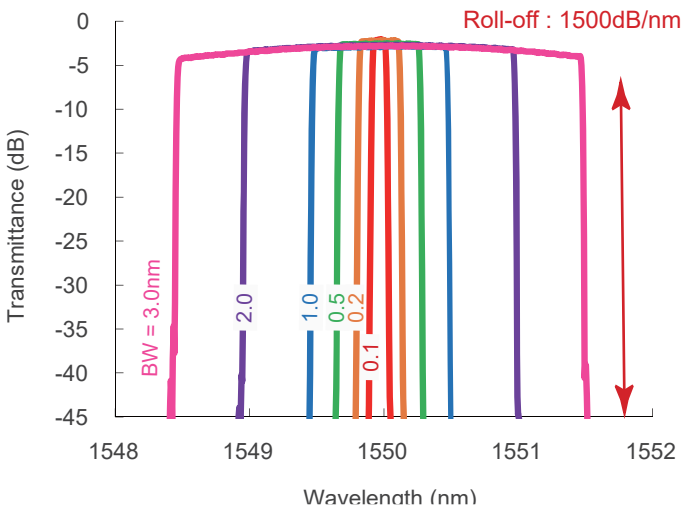


BVF-300CL (Manual)

1550nm | 1300nm Possible | Manual

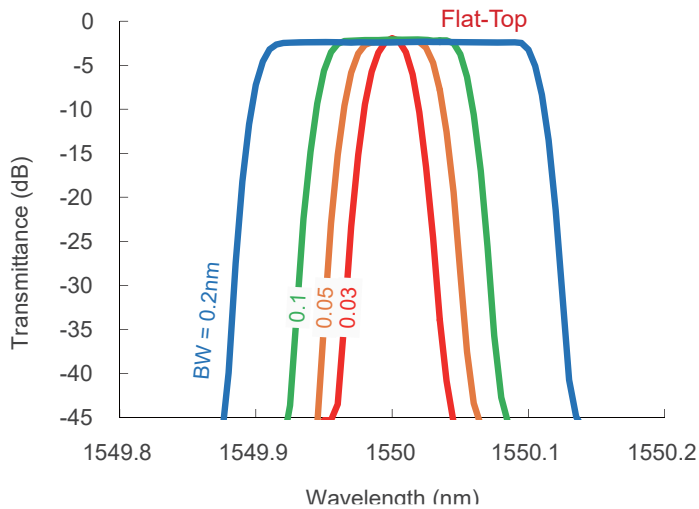
Ultra-Sharp Edge Roll-Off

The filter exhibits an ultra-sharp roll-off of 1500dB/nm (12dB/GHz), without compromising the flexibility of bandwidth- and wavelength-tuning. Ideal for DWDM channel selection and removing ASE noise.



Continuously-Tunable BW: 0.03 to 3nm

The 3dB bandwidth is 30pm (3.7GHz) at its narrowest, and is also continuously tunable to 3nm (370GHz). Filtering of <1GHz optical frequency comb lines is also possible by combining with etalons.



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Specifications

		CVF-300CL			BVF-300CL			
		min.	typ.	max.	min.	typ.	max.	unit
3dB bandwidth tunability		0.03		3	0.03		3	nm
		3.7		370	3.7		370	GHz
Filter-edge roll-off[1]		1000	1500		1000	1500		dB/nm
Center wavelength tunability	(Standard)	1525		1610	1525		1610	nm
	(Optional)[2]	1515		1630	1515		1630	nm
Wavelength accuracy			< +/-0.05			–		nm
Wavelength repeatability			< +/-0.01			–		nm
Insertion loss[3]	(3 dB Bandwidth > 0.1 nm)		4.5	6.5		4.5	5.5	dB
	(3 dB Bandwidth = 0.03 nm)		5.5	8		5.5	7	dB
Return loss		40	45		40	45		dB
Out-of-band suppression		40	50		40	50		dB
Polarization dependent loss (SMF-type only)			0.2			0.2		dB
Maximum input power[4]				500			500	mW
Optical fiber			SMF or PMF			SMF or PMF		
Optical connector			FC or SC, SPC or APC			FC or SC, SPC or APC		
Advanced features			Peak search, built-in power meter			–		
PC interface			USB, GPIB			–		
Power supply			AC 100-240 (50 / 60 Hz), AC adapter			–		V
Dimension (W x H x D)[5]			236 x 88 x 405			236 x 88 x 380[6]		mm
Weight			9			7		kg

1. Calculated between -3 dB and -40 dB points.
2. Within the wavelength range of 1515-1525 nm and 1610-1630 nm, specifications such as max. insertion loss, min. 3 dB bandwidth, roll-off etc may vary from the values specified above.
3. May increase by < 0.5 dB due to connector losses.
4. Max. 300 mW in the case of PMF (ensure linear polarizaton aligned to slow axis, in order to avoid damage).
5. Not including protruding parts.
6. For CE version, the casing dimension is 236 x 88 x 405 mm.

The above specifications are guaranteed at ambient temperature of 25 +/- 1 °C. In the case of CVF-300CL, allow sufficient warm-up time for stable operation. The above specifications may change without prior notice.

Options

- Manual filters in 1000nm and 1300nm wavelength ranges.
- Dual-channel filter (Filter out 2 wavelengths from the spectrum, available for manual version only.)
- Please inquire for other customizations.

Ordering Information

BVF - 300CL - □□ - □□

Fiber Type Connector Type

CVF - 300CL - □□ - □□

Fiber Type Connector Type

CE

Fiber Type	Connector Type	
SM: Standard Single Mode	FS: FC/SPC	SS: SC/SPC
PM: Polarization Maitaining	FA: FC/APC	SA: SC/APC