

S-band Narrow Bandwidth-Variable Tunable Filter

CVF-300BS / BVF-300BS

- S-band coverage 1450nm~1530nm
- Sharp roll-off: 500dB/nm, FWHM of 0.05nm~3nm
- Flexible: both bandwidth- and wavelength-tunable



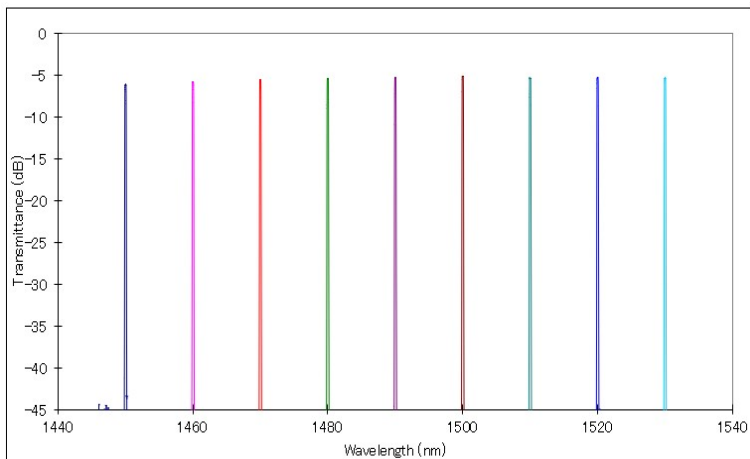
Specifications

Parameter	CVF-300BS			BVF-300BS			
	Programmable			Manual			
	Min.	Typ.	Max.	Min.	Typ.	Max.	Unit
3dB bandwidth tunability	0.05		3	0.05		3	nm
	6.80		410	6.80		410	GHz
Filter-edge roll-off ⁽¹⁾	300	500		300	500		dB/nm
Center wavelength tunability	1450		1530	1450		1530	nm
Wavelength accuracy		< +/- 0.05			-		nm
Wavelength repeatability		< +/- 0.02			-		nm
Insertion Loss ⁽²⁾	(3dB Bandwidth > 0.1nm)	6.5	7.5	6.5	7.0		dB
	(3dB Bandwidth = 0.05nm)		7.0	8.5	7.0	8.0	dB
Return loss	40	45		40	45		dB
Out-of-band suppression	35	40		35	40		dB
Polarization dependent loss (PDL) (SMF-type only)		0.2	0.3		0.2	0.3	dB
Polarization extinction ratio (PER) (PMF-type only)	20			20			dB
Maximum input power			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			-			
Operating temperature ⁽³⁾		15 ~ 35			10 ~ 40		°C
Dimension (W x H x D) ⁽⁴⁾		236 x 88 x 405			236 x 88 x 380		mm
Weight		9			7		kg

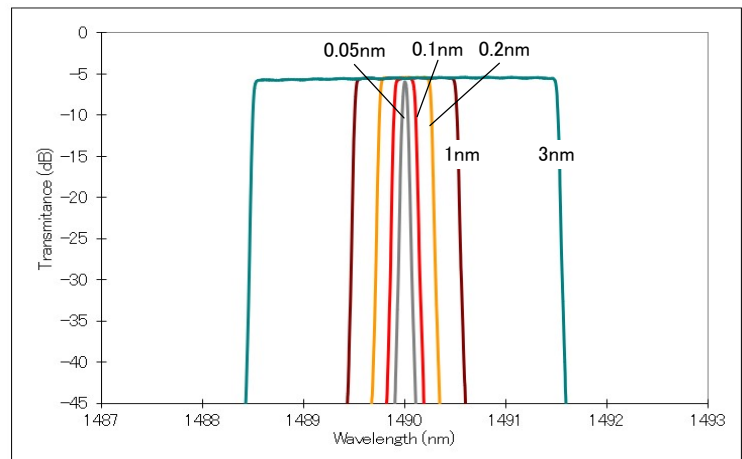
(1) Calculated between -3 dB and -40 dB points. (2) May increase by < 0.5 dB due to connector losses.

(3) The above specifications are guaranteed at ambient temperature of 25 +/- 1 °C. The above specifications may change without prior notice. (4) Not including protruding parts.

Note: The above specifications are guaranteed for wavelengths not in the water absorption line.



Filter Wavelength Tuning Range



Filter Spectra at Various 3dB Bandwidth

Ordering Information

BVF-300BS-SM(PM)-XX

CVF-300BS-SM(PM)-XX

XX= FS, FA, SS, SA