

Adjustable Bandwidth Tunable Filter OTF-350

The OTF-350 is a versatile manually optical tunable filter that allows simultaneous and independent tuning of center wavelength and bandwidth over C & L bands. Its unique precision free-space optics and accurate tuning mechanism bring forth excellent optical control and a flat top passband shape of filtered signal.

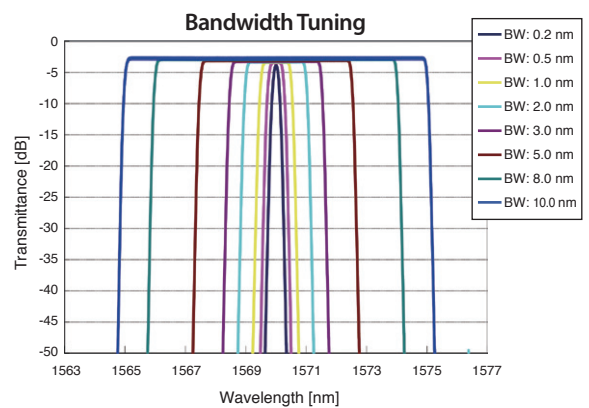
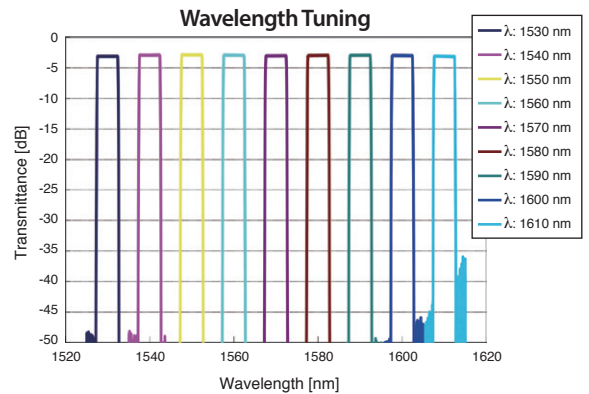


Features

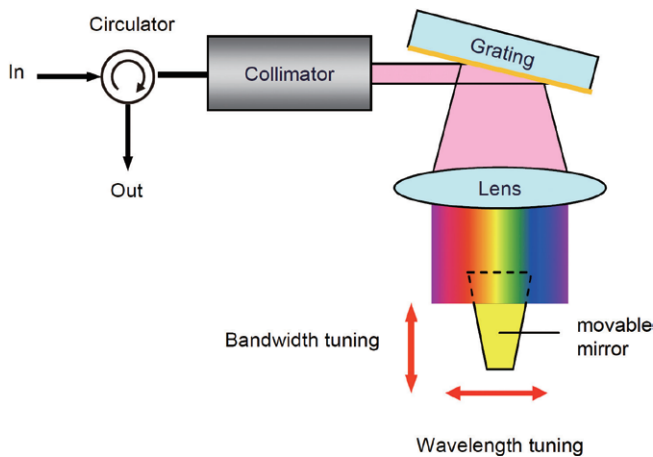
- ▶ Wavelength tuning range: 80 nm
- ▶ Wavelength range: 1530-1610 nm (C&L Band)
O-band is available upon request.
- ▶ Bandwidth: 0.2-10.0 nm (Normal type)
- ▶ Bandwidth: 0.1-15.0 nm (Wide type)
- ▶ Center wavelength and transmission bandwidth can be independently and continuously changed
- ▶ Flat-top filter shape

Applications

- ▶ 40 Gb/s, 100 Gb/s transmission test
- ▶ WDM wavelength tuning
- ▶ ASE noise filtering
- ▶ Pulse shaping
- ▶ Next generation bundle wavelength OXC



Tuning Mechanism



■ Specifications

■ Normal type:BW0.2-10 nm

Category	Parameter	Unit	Specification	Notes
Wavelength Characteristics	Wavelength Range	nm	1530 to 1610	
	Tuning Range	nm	80	
Filter Characteristics	Bandwidth @ -3 dB	nm	0.2 to 10.0	
	Bandwidth @ -20 dB	nm	≤ 0.6 ≤ 11	Bandwidth @ -3 dB = 0.2 nm Bandwidth @ -3 dB = 10.0 nm
	Group Velocity Dispersion	ps/nm	≤ ±1 (Typ. ≤ ±0.2)	
Power Characteristics	Maximum Input Power	dBm	+25	
	Insertion Loss	dB	≤ 5 (Typ. ≤ 3.5) ≤ 7	Bandwidth @ -3 dB ≥ 0.5 nm Bandwidth @ -3 dB < 0.5 nm
	Insertion Loss Uniformity (Typical)	dB	≤ 0.5	
	Return Loss	dB	≥ 40 (Typ. ≥ 45)	
	Crosstalk (Typical)	dB	≥ 50	
	PDL (Typical)	dB	≤ 0.25	SMF
	Fiber	Optical Fiber	-	SMF or PMF *1
	Optical Connector	-	FC or SC	
	Optical Polish	-	SPC or APC	APC = Angled PC
Others	Dimensions (Width x Height x Length)	mm	250 x 113 x 151	
	Weight	kg	3.5	

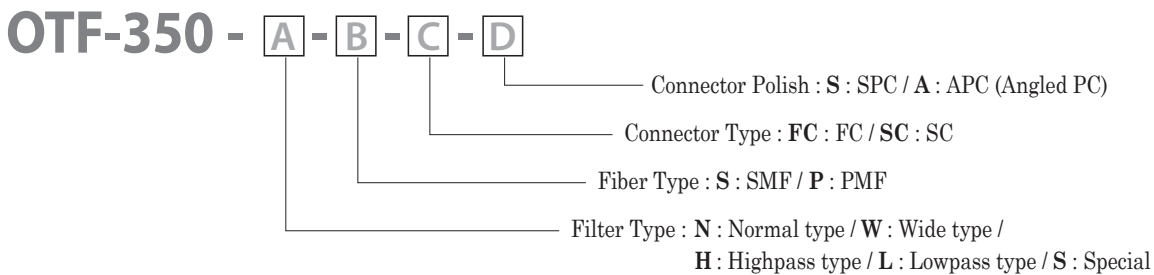
*1: In case of PMF, polarization extinction ratio 20 dB (typical). Polarization axis in alignment with connector key

■ Wide type:BW0.1-15 nm

Category	Parameter	Unit	Specification	Notes
Wavelength Characteristics	Wavelength Range	nm	1530 to 1610	
	Tuning Range	nm	80	
Filter Characteristics	Bandwidth @ -3 dB	nm	0.1 to 15.0	
	Bandwidth @ -20dB	nm	≤ 0.4 ≤ 15.5	Bandwidth @ -3 dB = 0.1 nm Bandwidth @ -3 dB = 15.0 nm
	Group Velocity Dispersion	ps/nm	≤ ±1 (Typ. ≤ ±0.2)	
Power Characteristics	Maximum Input Power	dBm	+25	
	Insertion Loss	dB	≤ 5 (Typ. ≤ 3.5) ≤ 7	Bandwidth @ -3 dB ≥ 0.2 nm Bandwidth @ -3 dB < 0.2 nm
	Insertion Loss Uniformity (Typical)	dB	≤ 0.5	
	Return Loss	dB	≥ 40 (Typ. ≥ 45)	
	Crosstalk (Typical)	dB	≥ 50	
	PDL (Typical)	dB	≤ 0.25	SMF
	Fiber	Optical Fiber	-	SMF or PMF *1
	Optical Connector	-	FC or SC	
	Optical Polish	-	SPC or APC	APC = Angled PC
Others	Dimensions (Width x Height x Length)	mm	250 x 113 x 151	
	Weight	kg	3.5	

*1: In case of PMF, polarization extinction ratio 20 dB (typical). Polarization axis in alignment with connector key

■ Ordering Code



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