

Wavelength & 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. Unique precision free-space optics and an accurate tuning mechanism deliver excellent optical control and a flat-top passband shape.

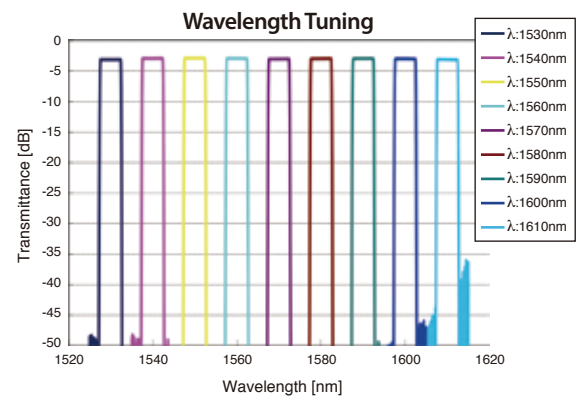


Features

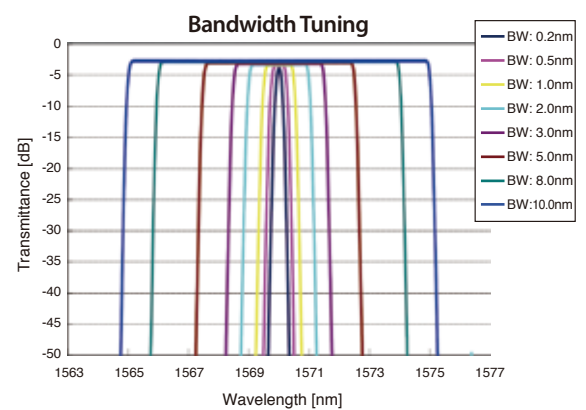
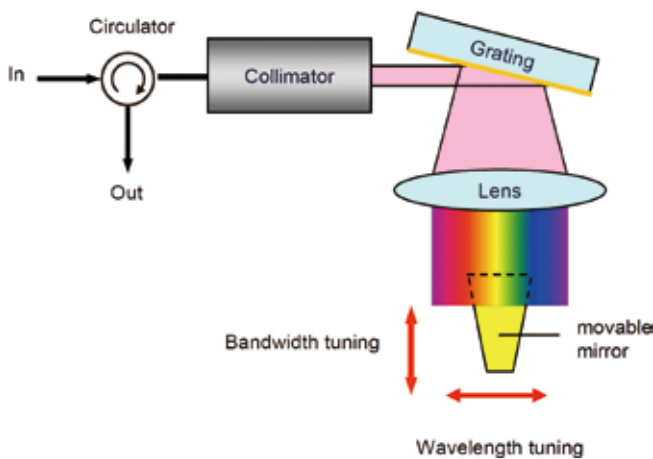
- ▶ Wavelength tuning range: 80nm
- ▶ Wavelength range: 1530-1610nm (C&L Band)
O-band is available.
- ▶ Bandwidth: 0.2-10.0nm (Normal type)
- ▶ Bandwidth: 0.1-15.0nm (Wide type)
- ▶ Independently tunable wavelength & bandwidth
- ▶ Flat-top filter shape

Applications

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



Tuning Mechanism



■ Specifications

■ Normal type:BW0.2-10nm

Category	Parameter	Unit	Specification	Notes
Wavelength Characteristics	Wavelength Range	nm	1530 to 1610	
	Tuning Range	nm	80	
Filter Characteristics	Bandwidth @-3dB	nm	0.2 to 10.0	
	Bandwidth @-20dB	nm	≤0.6 ≤11	Bandwidth@-3dB = 0.2nm Bandwidth@-3dB = 10.0nm
	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@-3dB ≥0.5nm Bandwidth@-3dB <0.5nm
	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	250x113x151	
	Weight	kg	3.5	

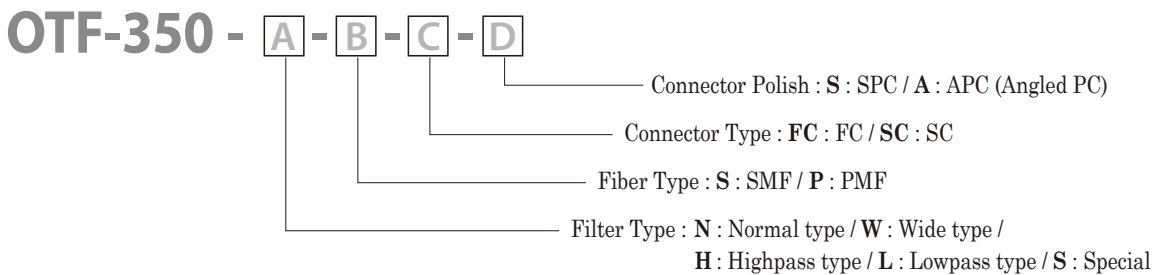
*1: In case of PMF, Polarization extinction ratio 20 dB (typical), Polarization axis in alignment with connector key

■ Wide type:BW0.1-15nm

Category	Parameter	Unit	Specification	Notes
Wavelength Characteristics	Wavelength Range	nm	1530 to 1610	
	Tuning Range	nm	80	
Filter Characteristics	Bandwidth @-3dB	nm	0.1 to 15.0	
	Bandwidth @-20dB	nm	≤0.4 ≤15.5	Bandwidth@-3dB = 0.1nm Bandwidth@-3dB = 15.0nm
	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@-3dB ≥0.2nm Bandwidth@-3dB <0.2nm
	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	250x113x151	
	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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