

波長・帯域幅可変光フィルタ OTF-350

OTF-350は波長と透過帯域幅をそれぞれ独立して変えることができる非常に急峻なフィルタスロープを持つマニュアルタイプの可変光フィルタです。回折格子をベースとしたユニークな高精度可変メカニズムにより、フラットトップな透過フィルタスペクトルと優れた光学特性を実現しております。

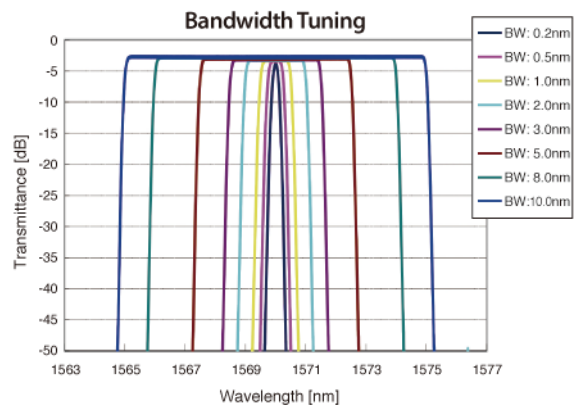
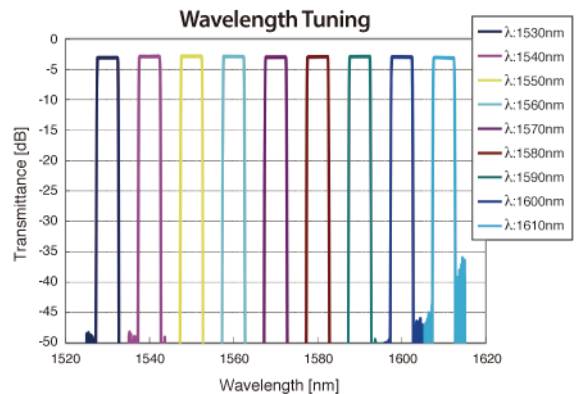


特徴

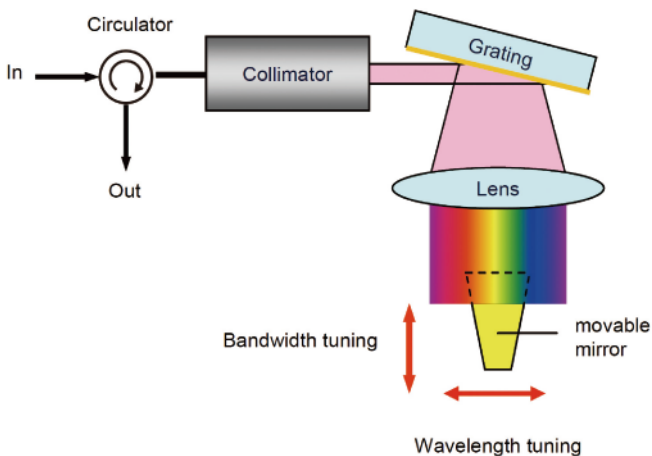
- ▶ 波長可変幅: 80nm
- ▶ 波長可変範囲: 1530-1610nm(C&L Band)
O-band に対応可能
- ▶ バンド幅可変範囲: 0.2-10.0nm(標準タイプ)
0.1-15.0nm(ワイドタイプ)
- ▶ 中心波長と透過帯域幅をそれぞれ独立に、連続可変可能
- ▶ フィルタ特性は矩形に近いフラットトップ

用途

- ▶ 40Gb/s、100Gb/s伝送試験
- ▶ 波長多重された光信号の波長選択
- ▶ 信号光帯域幅に適応したノイズカット
- ▶ Pulse shaping
- ▶ 次世代光波長クロスコネクタ



動作原理



■ Specifications

Normal type: BW 0.2 - 10 nm

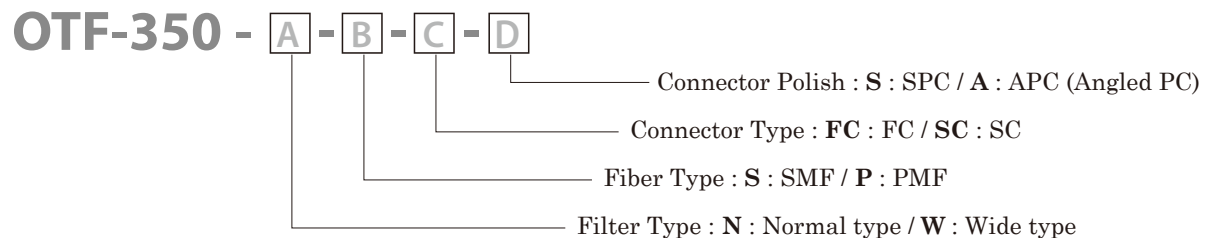
Category	Parameter	Unit	Specification	Notes
Wavelength Characteristics	Wavelength Range	nm	1530 - 1610	
	Tuning Range	nm	80	
Filter Characteristics	Bandwidth @-3 dB	nm	0.2 - 10.0	
	Bandwidth @-20 dB	nm	≤ 0.6	Bandwidth@-3 dB = 0.2 nm
			≤ 11	Bandwidth@-3 dB = 10.0 nm
Group Velocity Dispersion	ps/nm	≤ ±1 (typ. ≤ ±0.2)		
Power Characteristics	Maximum Input Power	dBm	+25	
	Insertion Loss	dB	≤ 5 (typ. ≤ 3.5)	Bandwidth@-3 dB ≥ 0.5 nm
			≤ 7	Bandwidth@-3 dB < 0.5 nm
	Insertion Loss Uniformity (typ.)	dB	≤ 0.5	
	Return Loss	dB	≥ 40 (typ. ≥ 45)	
	Crosstalk (typ.)	dB	≥ 50	
PDL (typ.)	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 (W) x (D) x (H)	mm	250 x 151 x 113	
	Weight	kg	3.5	

Wide type: BW 0.1 - 15 nm

Category	Parameter	Unit	Specification	Notes
Wavelength Characteristics	Wavelength Range	nm	1530 - 1610	
	Tuning Range	nm	80	
Filter Characteristics	Bandwidth @-3 dB	nm	0.1 to 15.0	
	Bandwidth @-20 dB	nm	≤ 0.4	Bandwidth@-3 dB = 0.1 nm
			≤ 15.5	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)	Bandwidth@-3 dB ≥ 0.2 nm
			≤ 7	Bandwidth@-3 dB < 0.2 nm
	Insertion Loss Uniformity (typ.)	dB	≤ 0.5	
	Return Loss	dB	≥ 40 (typ. ≥ 45)	
	Crosstalk (typ.)	dB	≥ 50	
PDL (typ.)	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 (W) x (D) x (H)	mm	250 x 151 x 113	
	Weight	kg	3.5	

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

■ Ordering Code



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