

Wavelength & Bandwidth Tunable Filter OTF-950

The OTF-950 is a versatile bench-top optical tunable filter that allows both wavelength tuning and passband width selection simultaneously and independently. Unique precision free-space optics and an accurate tuning mechanism deliver excellent optical control and a flat-top passband shape. A notch type tunable filter is also available (custom-order).

Features

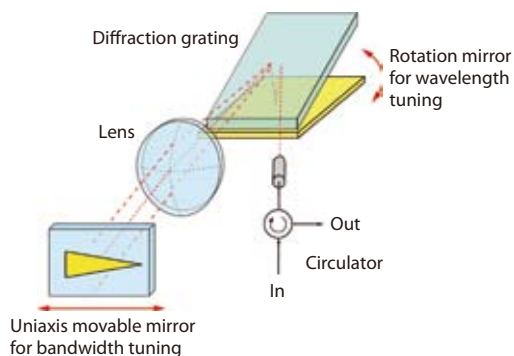
- ▶ Center wavelength & bandwidth tuning independently
- ▶ Flat-top filter shape (High figure of merit)
- ▶ Wavelength tuning range: 40 nm
- ▶ Bandwidth adjustable range: 0.2 to 6.0 nm
- ▶ Notch bandwidth adjustable range: 0.4 to 6.0nm
- ▶ Supporting LabVIEW control software

Applications

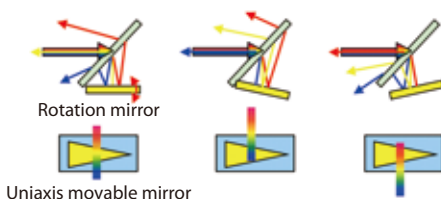
- ▶ Next generation bundle wavelength OXC
- ▶ Flexible test and measurement



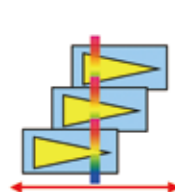
Tuning Mechanism



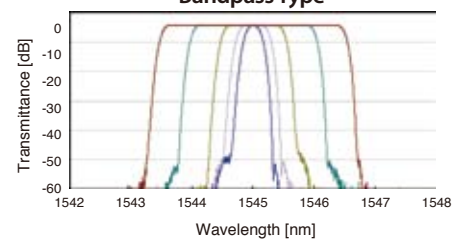
Wavelength tuning



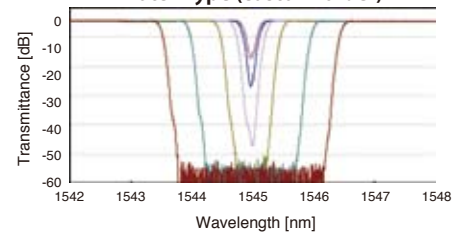
Bandwidth tuning



Bandpass Type



Notch Type (custom-order)



■ Specifications

Bandpass Type

Category	Parameter	Unit	Spec	Notes
Wavelength Characteristics	Wavelength range	nm	1525 to 1565 or 1570 to 1610	
	Accuracy	nm	≤±0.04	Fixed Bandwidth
	Repeatability	nm	≤±0.05	All Bandwidth
Filter Characteristics	Bandwidth @-3dB	nm	≤±0.01	*1
	Bandwidth @-20dB	nm	0.2 to 6.0	
	Accuracy	nm	≤0.7	-3dB BW = 0.2nm
	Repeatability	nm	≤6.5	-3dB BW = 6.0nm
	Chromatic Dispersion (Typical)	pm/nm	≤±0.05	
Power Characteristics	Maximum Input Power	dBm	≤±0.01	
	Insertion Loss	dB	+27dBm	
	Insertion Loss Uniformity (Typical)	dB	≤5 (Typ.≤3.5)	Bandwidth ≥0.5nm
	Return Loss	dB	≤7	Bandwidth <0.5nm
	Crosstalk (Typical)	dB	≤±0.3	
	PDL (Typical)	dB	≥40 (Typ.≥45)	
		dB	≥50	

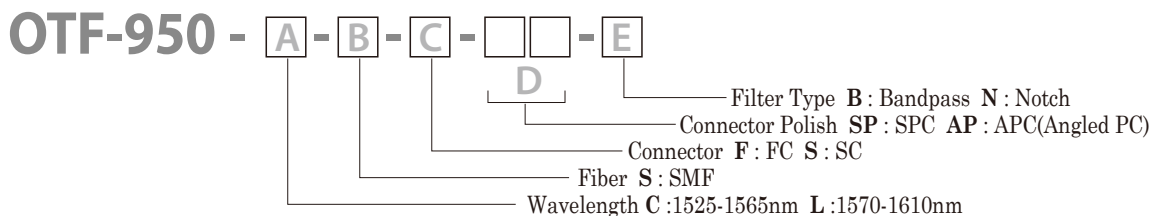
Notch Type

Category	Parameter	Unit	Spec	Notes
Wavelength Characteristics	Wavelength range	nm	1525 to 1565	
	Accuracy	nm	≤±0.05	
	Repeatability	nm	≤±0.01	*1
Filter Characteristics	Bandwidth @-3dB	nm	0.4 to 6.0	
	Accuracy	nm	≤±0.05	
	Repeatability	nm	≤±0.01	*1
Power Characteristics	Maximum Input Power	dBm	+27dBm	
	Return Loss	dB	≥40 (Typ.≥45)	
	Crosstalk (Typical)	dB	≥30	Notch Bandwidth <0.6
		dB	≥50	Notch Bandwidth ≥0.6

Category	Parameter	Unit	Spec	Notes
Interface	Optical Fiber	-	SMF	
	Optical Connector	-	FC or SC	
	Optical Polish	-	SPC or APC	APC = Angled PC
	Communication	-	GP-IB(IEEE488.2) & USB	with sample control software by USB
Environmental Conditions	Operating Temperature	°C	15 to 35	
	Operating Humidity	%	<80	
Power Supply	Voltage	V	AC100~240±10%	
	Frequency	Hz	50 / 60	
	Power Consumption	VA	35	
Others	Dimensions (W) x (L) x (H)	mm	343 x 376 x 133	
	Weight	kg	10	

*1: Temperature 25±1°C

■ Ordering Code



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