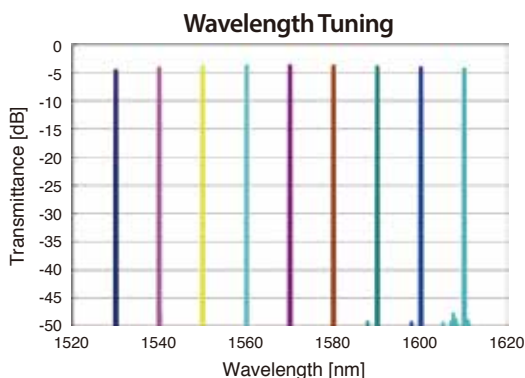
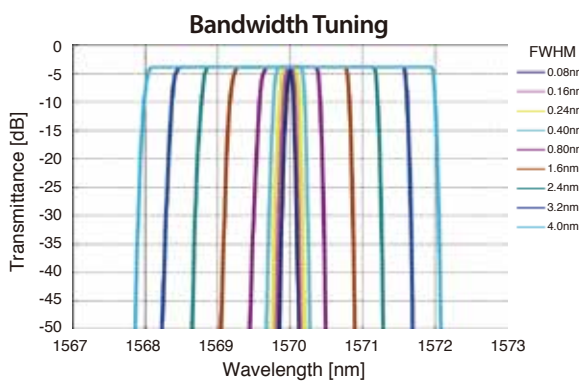


Wavelength & Bandwidth Tunable Filter OTF-970

The OTF-970 is a versatile programmable optical tunable filter that allows simultaneous and independent tuning of center wavelength and bandwidth over C & L bands. The OTF-970 is built with novel free-space optics combined with an ultra-fine tuning mechanism to ensure precise filter control and a flat-top passband shape. Two versions are available depending on transmission bandwidth range and slope shape. The Standard type has 0.1 to 15nm adjustable bandwidth with a filter slope of 200dB/nm, and the ultra-fine type has 0.08 to 4nm bandwidth tuning with our steepest filter slope, 400dB/nm. The fully programmable OTF-970 has automatic adjustment of the filter center wavelength and bandwidth. An integrated power meter monitors power at the output and features an automatic peak search function. GPIB and USB interfaces with the industry standard SCPI command set allows full remote control and measurement automation.



Measurement Data



Features

- ▶ Center wavelength & bandwidth tuning independently
- ▶ Flat-top filter shape with extremely steep filter slope
Standard 200dB/nm, Ultra-Fine 400dB/nm
- ▶ Wavelength range: C&L-band 1525-1610nm
- ▶ Bandwidth adjustable range:
Standard 0.1-15.0nm, Ultra-Fine 0.08-4.0nm
- ▶ Peak search function
- ▶ Supporting control software (USB / GP-IB)

Applications

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

Specifications

Category	Parameter	Unit	Standard			Ultra-Fine			Notes	
			Min.	typ.	Max.	Min.	typ.	Max.		
Wavelength Characteristics	Wavelength Range	nm	1525		1610	1525		1610		
	Accuracy	nm	-0.05		0.05	-0.05		0.05		
	Repeatability	nm	-0.01		0.01	-0.01		0.01	*1	
Filter Characteristics	Bandwidth @-3dB	nm	0.1		15.0	0.08		4.0		
	Bandwidth @-20dB	nm	0.4		15.5	0.22		4.3		
	Accuracy	nm	-0.05		0.05	-0.05		0.05		
	Repeatability	nm	-0.01		0.01	-0.01		0.01	*1	
	Group Velocity Dispersion	ps/nm	-1	±0.2	1	-1	±0.2	1		
	Filter slope	dB/nm		200			400			
Power Characteristics	Maximum Input Power	dBm			+27			+27	*3	
	Insertion Loss	Bandwidth ≥0.2nm	dB		3.5	5		3.5	5	*2,4
		Bandwidth <0.2nm	dB		5.5	7		5.5	7	*2,4
	Insertion Loss Uniformity	dB		0.3			0.3			
	Return Loss	dB	40	45		40	45			
	Crosstalk	dB		50			50			
	Polarization Dependent Loss	dB		0.25			0.25			
Interface	Optical Fiber	-	SMF							
	Optical Connector	-	FC or SC							
	Optical Polish	-	SPC or APC (Angled PC)							
	Communication	-	GP-IB (IEEE488.2) & 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 (D) x (H)	mm	210 x 350 x 133							
	Weight	kg	8.5							

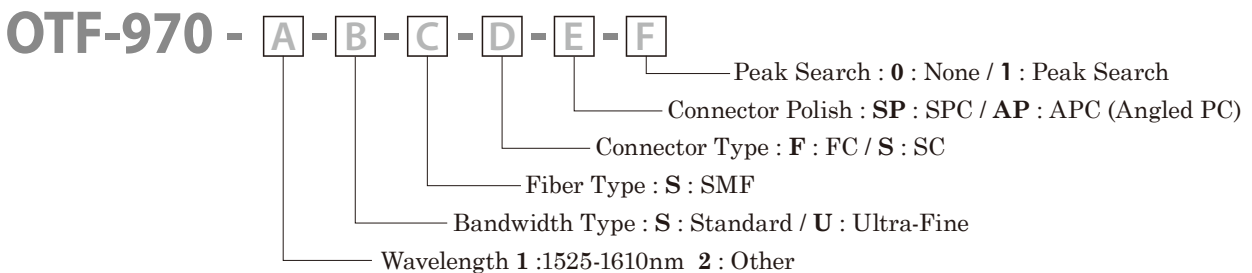
*1:Temperature 25±1°C

*2:In case of peak search option, the insertion loss increases by 0.5dB

*3:In case of peak search option, input power range is available from -30dBm to +20dBm.

*4:The insertion loss at (1525nm - 1530nm) wavelength range may increase by 1dB.

Ordering Code



GUI of Control Software



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