NEW

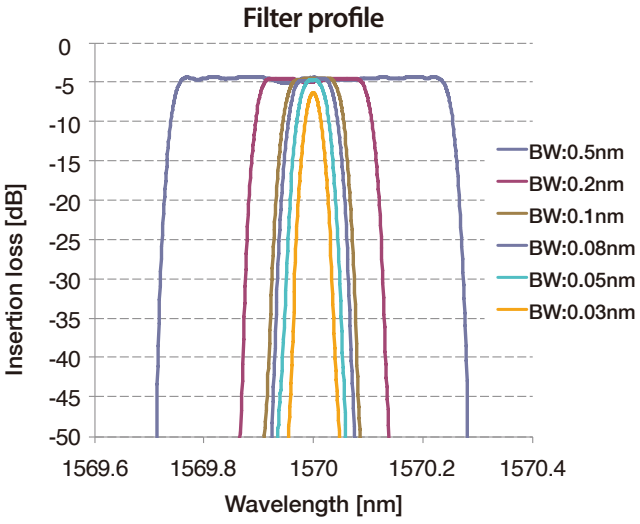
Wavelength & Bandwidth Tunable Filter

OTF-980

The OTF-980 is a versatile programmable optical tunable filter that allows simultaneous and independent tuning of center wavelength and bandwidth over C & L bands. The OTF-980 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. Three versions are available depending on transmission bandwidth range and slope shape. Among them, the Ultrafine-Plus has 0.05-3nm bandwidth tuning with our steepest filter slope, 1000dB/nm. The fully programmable OTF-980 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, Ethernet and USB interfaces with the industry standard SCPI command set allows full remote control and measurement automation. The OTF-980 is also controlled via the front panel touchscreen.

Touchscreen

Measurement Data



Features

- Center wavelength & bandwidth can be tuned independently
- Flat-top filter shape with steep filter slope:
  - Ultrafine-Plus: 0.05-3nm, 1000dB/nm
  - Ultrafine: 0.08-4nm, 500dB/nm
  - Standard: 0.1-15nm, 200dB/nm
- Wavelength tuning range: 85nm in C&L-band
- Peak search function
- Touchscreen and GPIB/Ethernet/USB interfaces

Applications

- 100Gb/s, 400Gbp/s transmission test
- Adjustable and adaptive DWDM, OFDM channel filtering
- ASE noise filtering
- Next generation bundle wavelength OXC

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■ Specifications

Category	Parameter		Unit	Standard	Ultrafine	Ultrafine-Plus
Wavelength Characteristics	Wavelength Range		nm	1525 to 1610		
	Accuracy		nm	±0.05 (typ.±0.03)		
	Repeatability *1		nm	±0.01 (typ.±0.005 *4)		
	Setting Resolution		nm	0.001		
Filter	Bandwidth @-3dB		nm	0.1 to 15	0.08 to 4	0.05 to 3
	Accuracy		nm	±0.05 (typ.±0.03)		
	Repeatability *1		nm	±0.01		
	Setting Resolution		nm	0.001		
	Filter slope *2 (typ.)		dB / nm	200	500	1000
Power Characteristics	Muximum Input Power *3		dBm	+27		
	Insertion Loss	Bandwidth ≧0.2nm	dB	5 *5,6 (typ. 3.5)		6 *5,7 (typ. 5)
		Bandwidth ＜0.2nm	dB	7 *5,6 (typ. 5.5)		8 *5,7 (typ. 7)
	Crosstalk (typ.)		dB	50		
	Polarization Dependent Loss (typ.)		dB	0.2		
	Peak Search Function (Option)		-	Yes		
Interface	Communication		-	GP-IB (IEEE488.2), USB & Ethernet		
	Display			5.6 inch resistive touch-screen (res. 640x480)		
	Optical Fiber			SMF		
	Optical Connector			FC or SC		
	Optical Polish			SPC or APC (Angled PC)		
Environmental Conditions	Operating Temperature		degC	15 to 35		
	Operating Humidity		%	＜80		
Power Supply	Voltage		V	AC100～240±10%		
	Frequency		Hz	50 / 60		
	Power Consumption		VA	100		
Others	Dimensions (W) x (D) x (H)		mm	210 x 350 x 133		
	Weight		kg	8.5		

*1: Temperature 25±1℃
*2: Between -3 and -40 dB for Bandwidth@-3dB>0.2nm
*3: In case of peak search option, input power range is available from -30dBm to +20dBm.
*4: When using peak search function, the wavelength repeatability improves to ±0.005nm (typ.).
*5: In case of peak search option, the insertion loss increases by 0.5dB
*6: The insertion loss at (1525nm - 1530nm) wavelength range may increase by 1dB.
*7: The insertion loss at (1525nm - 1530nm) wavelength range may increase by 0.5dB.

■ Ordering Code

OTF-980 - A - B - C - D - E - F

- F — Peak Search : **0** : None / **1** : Peak Search (Standard)
- E — Connector Polish : **SP** : SPC / **AP** : APC (Angled PC)
- D — Connector Type : **F** : FC / **S** : SC
- C — Fiber Type : **S** : SMF
- B — Bandwidth Type : **S** : Standard / **U** : Ultrafine / **P** : Ultrafine-Plus
- A — Wavelength Range : **1** : 1525-1610nm / **2** : Other

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