

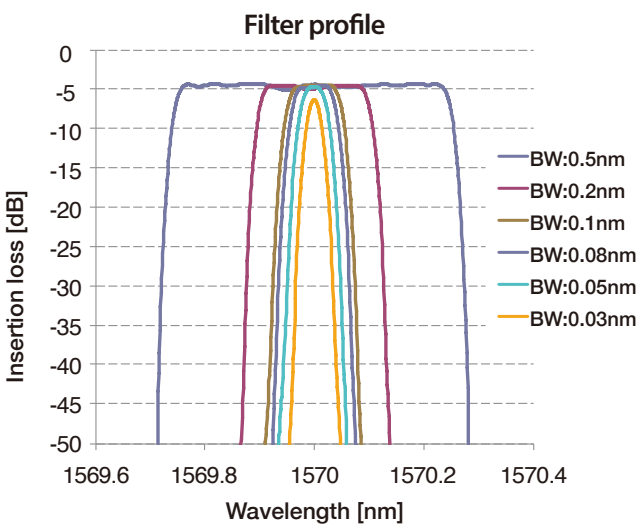
Adjustable Bandwidth Tunable Filter OTF-980

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. There are three versions available with different transmission bandwidth and slope shape with the ultrafine-plus(0.05-3nm bandwidth) having the steepest filter slope (1000dB/nm). 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 users to have full remote control and measurement automation. The OTF-980 is 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 - 3 nm, 1000 dB/nm
Ultrafine:	0.08 - 4 nm, 500 dB/nm
Standard:	0.1 - 15 nm, 200 dB/nm
- ▶ Wavelength tuning range: 85 nm in C&L-band
- ▶ Peak search function
- ▶ Touchscreen and GPIB/Ethernet/USB interfaces

Applications

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

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	Maximum 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	°C	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°C

*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.

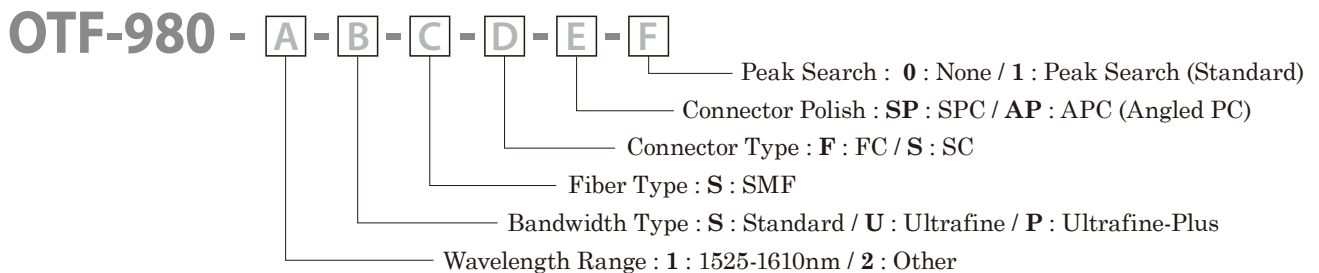
*4: When using peak search function, the wavelength repeatability improves to ±0.005nm (typ.).

*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



www.santec.com E-Mail : sales@santec.com



SANTEC CORPORATION

5823 Ohkusa-Nenjozaka, Komaki, Aichi 485-0802, Japan Tel: +81-568-79-3536 Fax: +81-568-79-1718

SANTEC U.S.A. CORPORATION

433 Hackensack Ave., Hackensack, NJ, 07601, U.S.A. Toll Free: +1-800-726-8321 (santec-1) Tel: +1-201-488-5505 Fax: +1-201-488-7702

SANTEC EUROPE LIMITED

Grand Union Studios, 332 Ladbroke Grove, London, W10 5AD, U.K. Tel: +44-20-3176-1550

SANTEC (SHANGHAI) Co., Ltd.

11F Room E, Hua Du Bldg., No.838 Zhangyang Road, Pudong District, Shanghai 200122 China Tel: +86-21-58361261, +86-21-58361262 Fax: +86-21-58361263