

# LEAD Fiber Optics PRODUCT CATALOGUE

## WDM FILTER

## **LFO WDM Filter Series**



### **Singlemode WDM Filter**

Singlemode WDM Filter is designed to separates/combines two wavelength windows, one is around 1310nm and the other is around 1550nm. The bandwidth of the 1310nm and 1550nm channel can be +/-40nm, filtered out from 1270nm to 1350nm and 1510nm to 1590nm wavelength range.

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### **Multimode r WDM Filte**

Multimode WDM Filter is designed to separates/combines two wavelength windows, one is around 850nm and the other is around 1310nm. The bandwidth of the 850nm and 1310nm channel can be +/-50nm, filtered out from 80nm to 900nm and 1260nm to 1360nm wavelength range.

## Singlemode WDM Filter

### Features

- Environmentally stable
- Wide band pass
- Low insert loss
- Low loss and Low cross-talk
- Low Polarization dependent loss
- Optical path epoxy free

### Applications

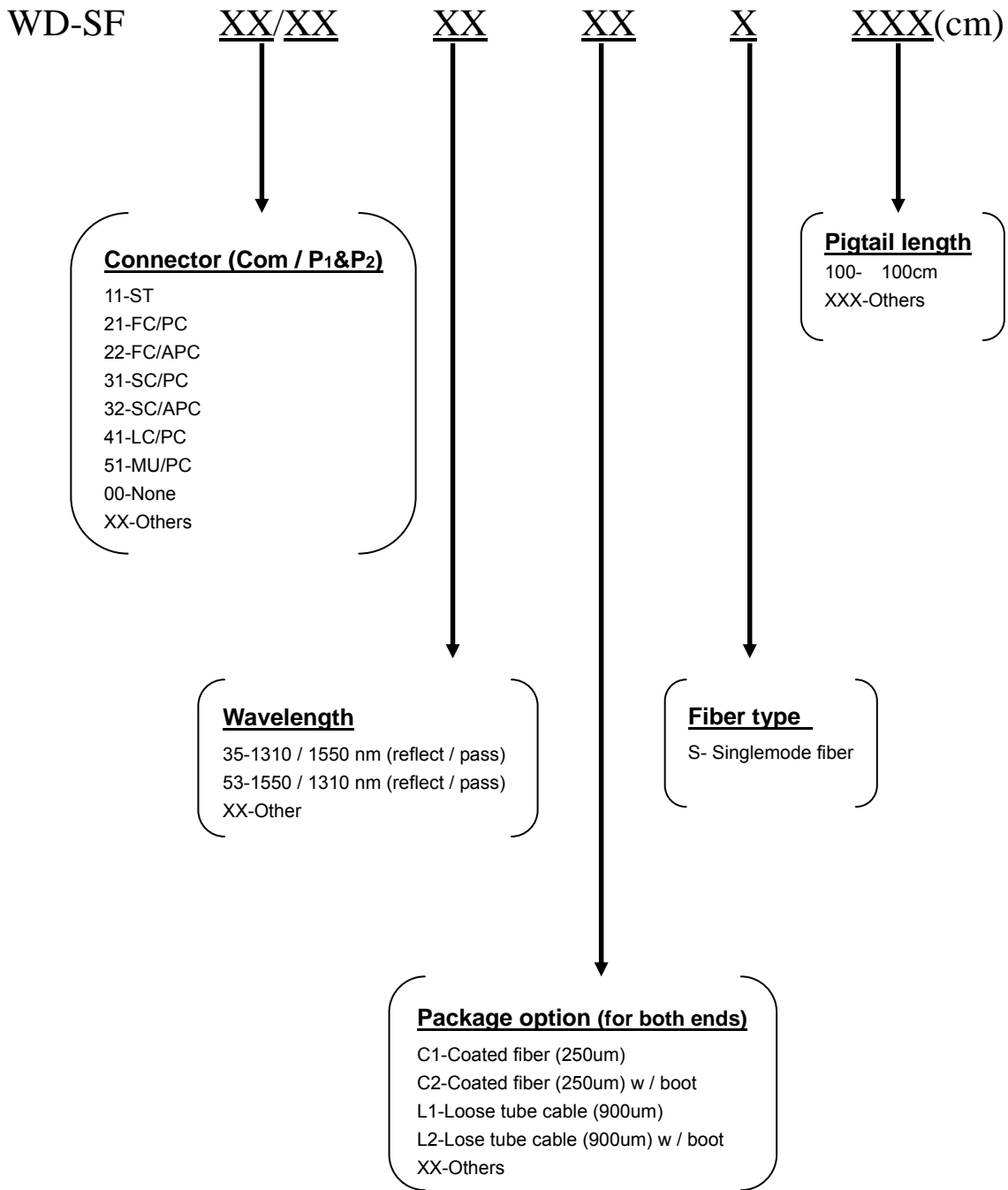
- Telecommunications
- Local area network
- Fiber optic sensors
- Test instruments
- RFTS & CATV & FTTH



## Specifications

ITEM	VALUES	
Operation Wavelength (nm)	1270~1350 & 1510~1590 or Customer Specify	
Insertion Loss, dB	Typical	0.5
	Max	0.7
Pass band Ripple, dB	$\leq 0.3$	
Isolation, dB	$\geq 15$ (reflect channel)	
	$\geq 40$ (pass channel)	
Optical Return Loss	$\geq 45$	
Directivity, dB	$\geq 50$	
Thermal Stability, dB / °C	$\leq 0.005$	
Polarization Dependent Loss, dB	$\leq 0.05$	
Polarization Mode Dispersion, ps	$\leq 0.1$	
Max. Optical Power, mW	300	
Max. Tensile Load, N	5	
Storage Temperature, °C	-40°C ~ 85°C	
Operation Temperature, °C	0°C ~ 65°C	
Package Size, mm	$\phi$ 5.5 x 34 mm for coated fiber (250 $\mu$ m) $\phi$ 5.5 x 39 mm for loose tube cable (900 $\mu$ m)	

# Singlemode WDM Filter Ordering information



**LEAD Fiber Optics Co.,Ltd.**

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**Lfo**

## Multimode WDM Filter

### Features

- 850/1310nm operating wavelength
- Wide band pass
- Low insert loss
- Low cross-talk
- High isolation

### Applications

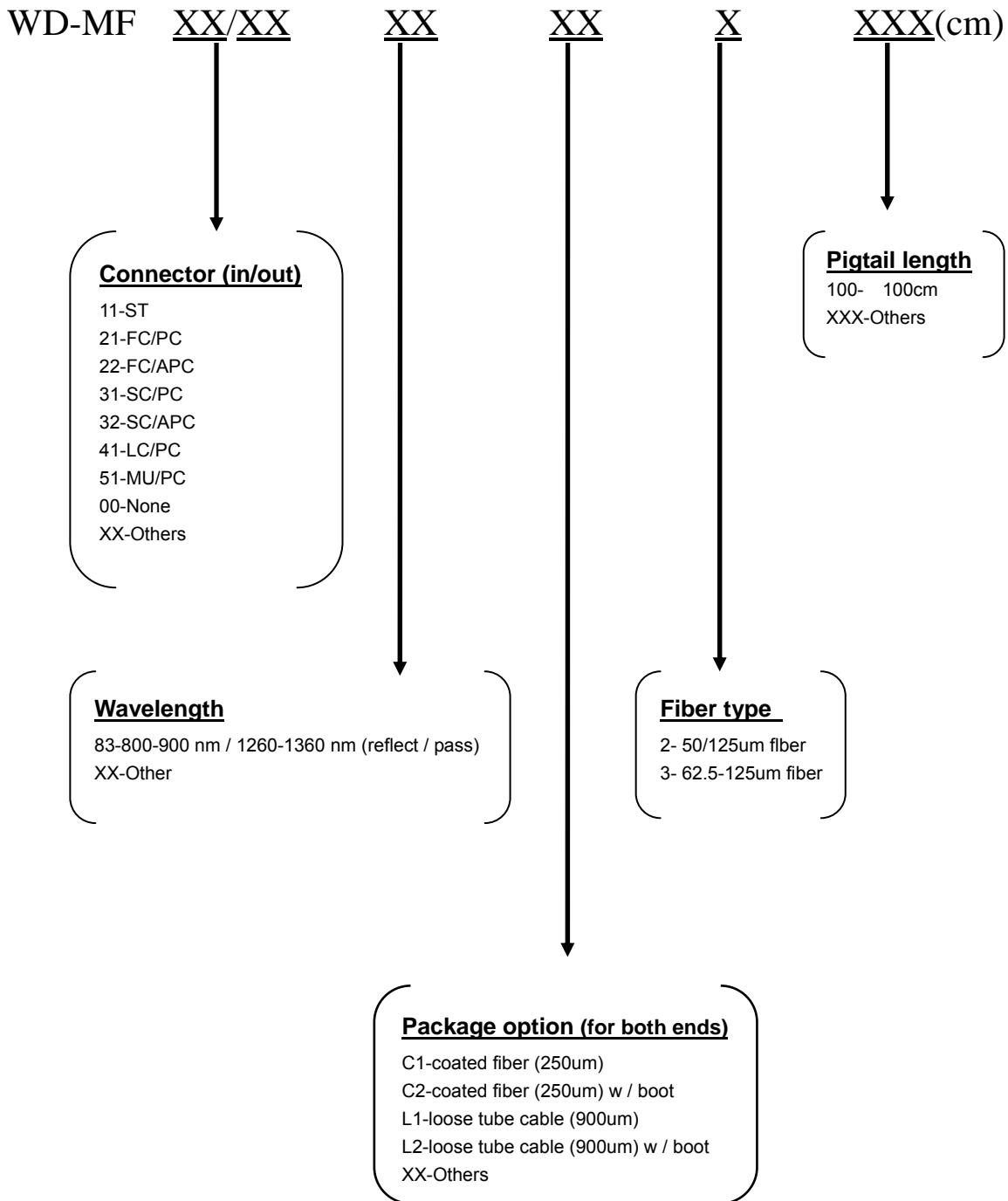
- Telecommunications
- Local area network
- Fiber optic sensors
- Test instruments
- RFTS & FTTH



## Specifications

ITEM		VALUES
Operation Wavelength, nm		850 reflect & 1310 pass or <a href="#">Customer Specify</a>
Insertion Loss, dB	Typical	0.9
	Max	1.2
Isolation, dB		$\geq 40$ dB (C→P2 @ 850nm VCSEL) $\geq 15$ dB (C→P1 @ 1310nm VCSEL) $\geq 20$ dB (C→P1 @ 850nm LED) $\geq 15$ dB (C→P2 @ 1310nm LED)
Thermal Stability, dB / °C		$\leq 0.005$
Max. Tensile Load, N		5
Polarization Dependent Loss, dB		$\leq 0.1$
Storage Temperature, °C		-40°C ~ 85°C
Operation Temperature °C		0 ~ 65°C
Package Size, mm		$\phi$ 5.5 x 34 mm for coated fiber (250 $\mu$ m) $\phi$ 5.5 x 39 mm for loose tube cable (900 $\mu$ m)

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