

Data sheet - WLTF-FL-O-FT-XXXX-YY-ZZ

- Wavelength Tunable Filter for O-band -

Features

- Continuously tunable over the entire 100GbE-LR4, CWDM4, 400GbE-LR8 WLS
- Wide range of bandwidth selection (Standard: 2.0 ~ 20 nm, Optional: 1.0~2.0 nm) (fixed bandwidth, specified by customer when placing order)
- Flat-top transmission spectrum
- High out-of-band suppression (> 40 dB)
- Built-in attenuator and power monitor
- External control (GP-IB and RS-232C)



Customization

- Narrower bandwidth (0.1 ~ 1.0 nm, Gaussian)
- Wider tuning range
- Other operating wavelength (E, S, C, L-band)

1. Transmission Spectra

WLTF-FL-O-FT-1300-100-2.5		WLTF-FL-O-FT-1300-100-6.0
100GBASE-LR4 wavelengths	400GBASE-LR8 wavelengths	100GBASE-CWDM4 wavelengths

2. Example of test set-up



Application of WLTF-FL-O for 100GBASE-LR4 transmitter testing

3. Product Specifications

Parameter		Specification
Product Number		WLTF-FL-O-FT-XXXX-YY-ZZ
Wavelength Filter	Center Wavelength(CWL)	XXXX : 1300 nm
	Tuning Range	YY : 100 nm
	Tuning Resolution	0.01 nm
	FWHM	ZZ : 2.0 ~ 20.0 nm @ CWL
	Out-Band Suppression	≥ 40dB (Transmission peak to average of background)
	Filter shape	Flat-top
Built-in Attenuator	Roll-Off	22 dB/nm (typ.) (-3dB to -33dB level)
	Variable Range	0 to 30 dB (typ.)
	Variable Resolution	0.1 dB
	Accuracy	± 0.5 dB (typ.)
Built-in Power Monitor	Monitor Range	+27 to -50 dBm
	Monitor Resolution	0.001 dB
	Accuracy	± 0.5 dB (typ.)
System Insertion Loss (at CWL)		≤ 3dB (typ.)
Return Loss at Optical Port		≥ 45dB
PDL (at Center Wavelength)		0.15 dB (typ.)
Maximum Input Power		300 mW
Input & Output Fibers		SMF (Corning SMF28e)
Connectors		FC/PC

4. Common Standard Specifications

Parameter	Specification
Remote Interface	RS232C / IEEE488.1 (GP-IB)
Power Supply	AC100 to 240 V (50/60 Hz)
Power Consumption	≤ 6 W (5.5 W typ.)
Dimension (H×W×D)	88 × 260 × 350 mm (* not including protrusions)
Weight	≤ 5 kg
Temperature	Operation : 0 to 40 °C / Storage : -10 to 60 °C

5. Options

No.	Descriptions	No.	Descriptions
012	FC / Angled-PC Connector	081	Remove OATT & OPM function
013	SC / PC Connector	082	Narrow bandwidth (0.1 ~ 1.0 nm, Gaussian)
014	SC / Angled-PC Connector	083	Narrow bandwidth (1.0 ~ 2.0 nm, Flat-top)
019	Other Customized Connectors		
		122	Rack Mount Kit

6. Ordering Information

WLTF-FL-O-FT-XXXX-YY-ZZ

Center Wavelength

Tuning Range

FWHM

ex.) WLTF-FL-O-FT-1300-100-2.5 , WLTF-FL-O-FT-1300-100-6.0

- The specifications are subject to change.
- All functions, characteristics and exterior design can be optimized according to customer requirements.

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