

50GHz Wavelength Filter Tuning

Features

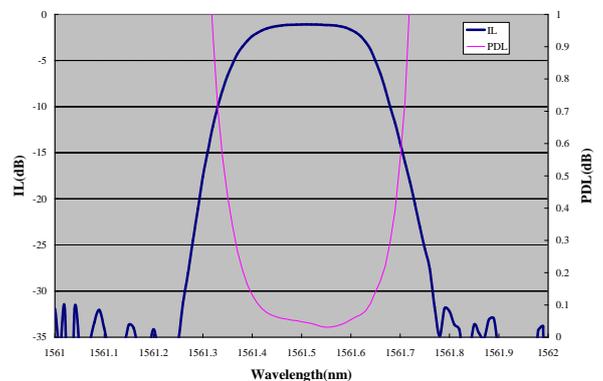
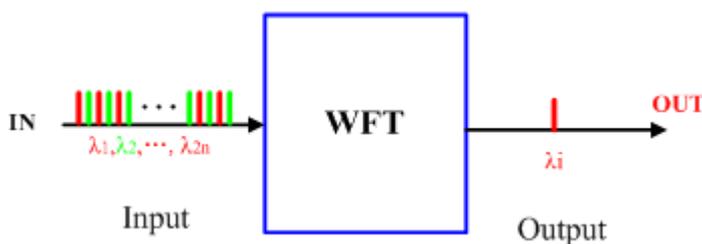
- Flattop passband with deep isolation
- Fast and hitless tuning
- Low IL and PDL across C-band
- Athermal and robust

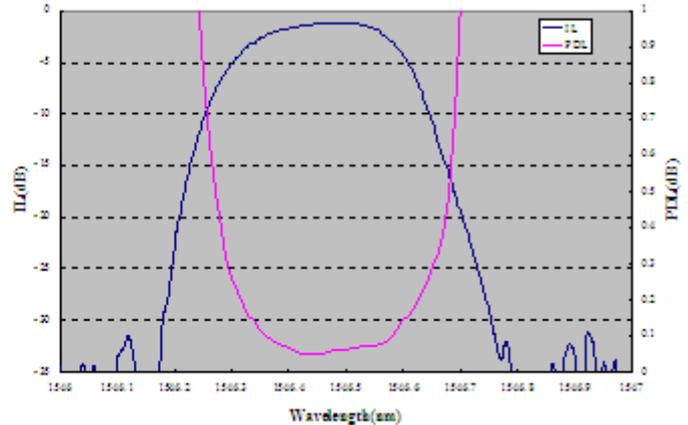
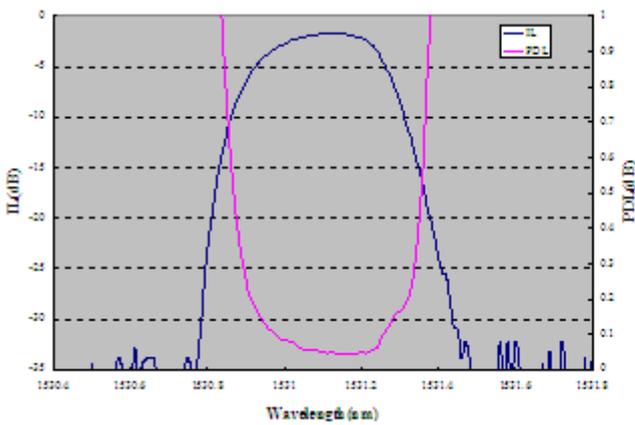


Applications

- Ultra high resolution optical spectrum analysis (OSA)
- Optical performance monitoring (OPM) and optical channel monitoring (OCM)
- Tunable channel Drop/Add for WDM
- Tunable optical noise filtering and channel locking
- Sensing application

Function & Performance



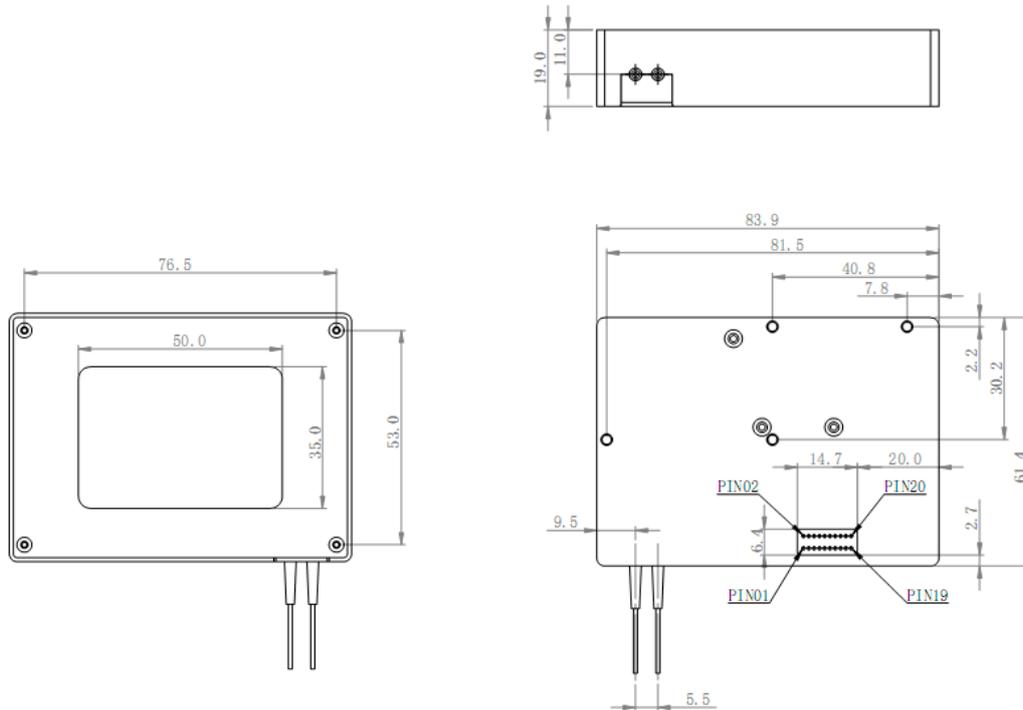


Optical Specifications:

Parameter	Unit	Min.	Typ.	Max.	Comments
TF Variant	GHz	50			
Optimized wavelength range	nm	1529~1567			
Band Width@-0.5dB	GHz		15		
Band Width@-1.0dB	GHz	20			
Band Width@-3.0dB	GHz		30		
Band Width@-20dB	GHz			85	
Non-adjacent channel isolation	dB	-40			
Adjacent channel isolation	dB	-18			From ITU ±5G wavelength
Insertion loss (inc. connectors)	dB		4.5	5	
Wavelength setting accuracy	GHz	-4	±2	+4	
Wavelength Repeatability	GHz			±1	
Polarization dependent loss	dB			0.5	From ITU ±5G wavelength
Wavelength Temperature Dependence	pm/°C		< ±1		
Polarization mode dispersion	ps		0.5		From ITU ±5G wavelength
Group delay dispersion	ps/nm	-100	±20	+100	
Return loss	dB	40			
Tuning time	s			10	
Working Temperature Range	°C	-5 to +65			
Storage Temperature Range	°C	-40 to +85			

Mechanical Drawing (mm):

Mechanical	
Dimension (L x W x H, mm)	83.9x 61.4 x 19
Pigtail Length (m)	1 ± 0.1



Ordering information (Example: PWFT 1—12221)

PWFT 1

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Wavelength	Channel Spacing	Fiber Length	Fiber Type	Connector Type
1、 C band	1、 100G	1、 0.5 +/-0.1m	1、 250μm fiber	0.No connector
2、 L Band	2、 50G	2、 1.0+/-0.1m	2、 900μm fiber	1、 FC/UPC
3、 Others		3、 Others	3、 Others	2、 FC/APC
				3、 SC/UPC
				4、 SC/APC
				5、 LC/PC
				6、 MU/PC
				7、 Others

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