

Photonics Beyond Boundary

Features

- Based on advanced etalon technology
- Extreme wavelength stability
- Seam-sealed package

Applications

- FBG sensing system
- System monitoring
- Test & Measurement
- Instrumentation





Product Description

Primanex *Mag-ID* Athermal Reference Filters are based on advanced etalon technology. With Primanex's unique opto-mechanical design and advanced packaging techniques, the filters demonstrate extreme wavelength stability under varied environmental conditions including temperature and humidity.

By a patent pending precision tuning technique, the filters come with an option of ITU targeting accuracy within +/-1.25GHz. This ITU-targeted filter is widely used in WDM system channel monitoring and wavelength blocking. The special option is also available for customer to select specific wavelengths for precision targeting.

The *Mag-ID* Wavelength Reference Filter is uniquely designed to have one or several consecutive adjacent wavelength peaks blocked, which functions as a fixed wavelength "mark". Such wavelength "mark" will help the scanning system at customer site to tell where it is exactly located in a wavelength span.

The filters come with a broad design options including etalon finesse, channel spacing and operating wavelength range. The customer friendly product design enable the Athermal Reference Filters to be utilized in a spectrum of diverse applications including telecommunication, wavelength referencing and calibrating in sensor system, test & measurement instrumentation, and laser wavelength stabilization.



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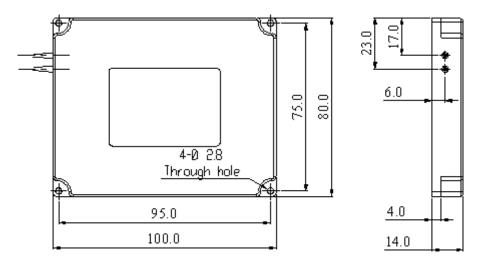
Specifications

Item	Unit	Parameter		Notes	
Wavelength Range	nm	1525 ~ 1565		Custom wavelength range is available	
Insertion Loss	dB	4.0			
Polarization Dependent Loss	dB	0.1			
Polarization Dependent Accuracy	GHz	+/- 0.1			
Channel Spacing	GHz	200		100G available upon request	
Thermal Stability	GHz	\leq +/-1.6 (Standard)		Across temperature range	
Finesse		7	14		
Pass Band Width@3dB	GHz	≤ 32	≤ 18		
Contrast	dB	≥13	≥18		
Blocked Channel (s)		Random Selection		Custom selection optional	
Back Reflection	dB	≥ 20		Can be custom specified to desired back reflection	
Maximum Optical Power	mW	500			
Operation Temperature	⁰ C	$-5 \sim 70$		Wider temperature range available upon request	
Storage Temperature	⁰ C	$-40 \sim 85$			
Dimension(L×W×H)	mm	$100 \times 80 \times 14$ (Regular-type) $80 \times 40 \times 14$ (Mini-type)			
Fiber Type	N/A	SMF-28e+ with 900		900µm fiber	

*. All the specifications are based on the devices without connectors, and guaranteed over the operating temperature ranges, wavelength ranges and all polarization states.

* *. Specifications are subject to change without notice.

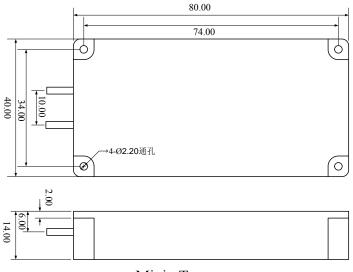
Dimensions Drawing (Unit: mm)



Regular-Type

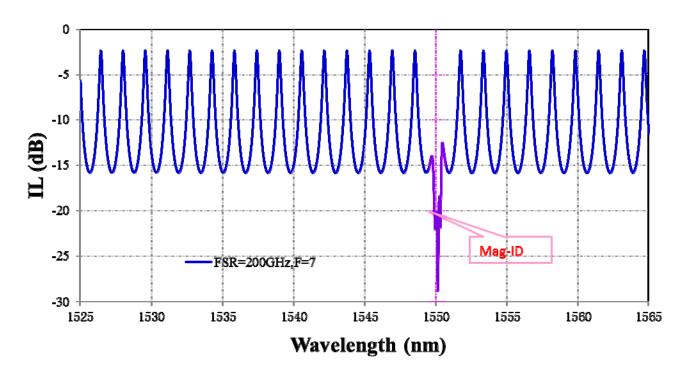


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Mini-Type

Spectral Plot (Shown here for filter with finesse of 7, FSR 200 GHz)





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6. MU/PC 7. Others

Ordering Information(Example:PETM1-1112212)

PETM1 -				2	
Number of	Operating Wavelength	Finesse	Channel Spacing	Fiber Length	Connector Type
Blocked Peaks	1. C Band	1.7	1. 100 GHz	1. 0. 5 +/- 0.1 m	0.No Connector
1. 1	2. L Band	2.14	2. 200 GHz	2. 1. 0 +/- 0.1 m	1. FC/UPC
2. 2	3. Others	3. Others	3. Others	3. Others	2. FC/APC
3. Others				·,	3. SC/UPC
					4. SC/APC
					5. LC/PC

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