

100G Mag-ID Wavelength Reference Filter

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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100G Mag-ID Wavelength Reference Filter

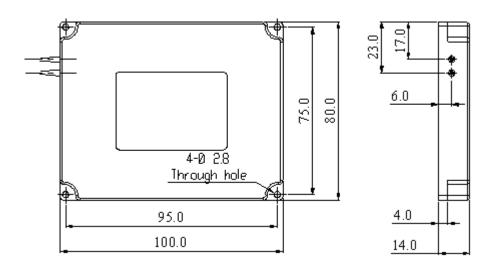
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Sp	ecif	ica	tion	S
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Item	Unit	Parameter		Notes
Wavelength Range	nm	1525 ~ 1565		Custom wavelength range is available
Insertion Loss	dB	4.0)	
Polarization Dependent Loss	dB	0.1		
Polarization Dependent Accuracy	GHz	+/- (0.1	
Channel Spacing	GHz	100)	200G available upon request
Thermal Stability	GHz	\leq +/- 0.8 (Standard)		Across temperature range
Finesse		7	14	
Pass Band Width@3dB	GHz	≤ 16	≤ 9	
Contrast	dB	≥ 13	≥ 18	
Blocked Channel (s) Ra		Random S	election	Custom selection optional
Back Reflection	dB	≥ 20		Can be custom specified to desired back reflection
Maximum Optical Power	mW	500		
Operation Temperature	°C	-5 ~ 70		Wider temperature range available upon request
Storage Temperature	°C	-40 ~ 85		
Dimension(L×W×H)	mm	$100 \times 80 \times 14$ (Regula $80 \times 40 \times 14$ (Mini-		
Fiber Type	N/A	Corning SMF-28e+ w		th 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.

Dimensions Drawing (Unit: mm)

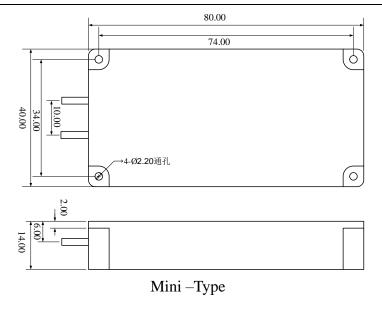


Regular-Type

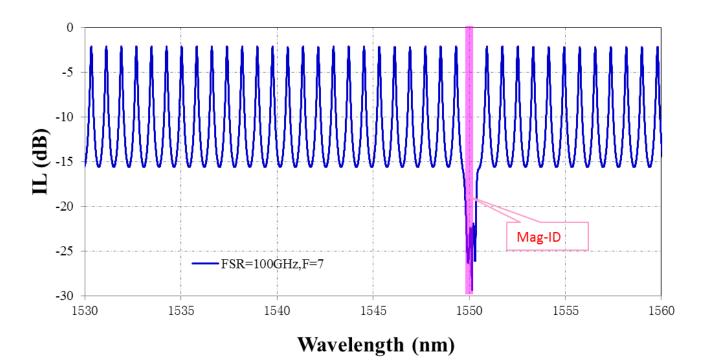
^{* *.} Specifications are subject to change without notice.



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Spectral Plot (Shown here for filter with finesse of 7, FSR 100 GHz)





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Ordering Infor	mation(Example:PE	ГМ1-111122	22)		
PETM1 -	P P			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
					6. MU/PC
					7. Others

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