IXC-FBG-PS-1064-2-ATH-PM-FA

Ultra-Narrow Band-Pass Filter

This filter type is based on a specific process using a phase-shifted (PS) technique. This phase-shifted is introduced to the refractive index modulation, leading to a narrow transmission peak within the stop-band.

The filter we propose is a customer inspired product with an original wavelength at 1064 nm and a band pass linewidth lower than 2 GHz.

e coil Athermal and tunable Fiber Bragg Grating

Thermally packaged, this filter is very stable against temperature variations.

Additionally, the band-pass wavelength can be easily and finely adjusted by rotating a tiny screw on the package.

Benefits & Features

- · Ultra-narrow band-pass filter down to 2 GHz FWHM
- · Tailored transmission
- · Filtering at specific wavelength
- Low insertion loss
- High temperature stability within a 1 pm/C
- ± 50 pm fine tuning with our specific athermal package

Applications

- Free-space quantum-key distribution (QKD)
- Laser communication

Lidar

- Lines filtering for lasers and sensors
- · Linewidth reduction
- · Frequency conversion

yuanshou-bu@auniontech.com

Tel: 18621128645

联系人: 步工

PSD-L-Q-E-086 L

BG-DS-106/4-2-ATH-DM-FA Add 21072

IXC-FBG-PS-1064-2-ATH-PM-FA Ultra-Narrow Bandwidth Band-Pass Filter TECHNICAL SPECIFICATIONS

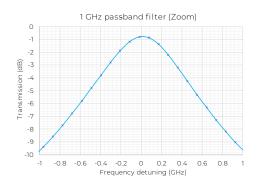
Parameters

1064 ± 0.05
< 2
> 125
< 1
> 20
± 50
1
< 150
55 x 5 x 5
300
1
FC/APC (0.9 mm buffered fiber)

Comments:

Typical spectrum (measured in transmission)







¹ Referenced to vacuum at ± 0.05 nm, slow axis (PM fiber)

² By design

³ Maximum input power: damage power threshold

 $^{^4\}mbox{Recommended}$ input power for stable filter operation is below 10 mW