1x1 1550nm Customized GFF Device Datasheet

GFFs are commonly used in optical communications applications, such as Dense Wavelength Division Multiplexing (DWDM) systems.

- **Description**

A 1550nm Gaussian Filter (GFF) is an optical filter that has a narrow bandwidth centered around the 1550nm wavelength. It is designed to provide a high level of attenuation outside of this narrow bandwidth, resulting in a very steep filter slope. GFFs are commonly used in optical communications applications, such as Dense Wavelength Division Multiplexing (DWDM) systems. In these systems, multiple optical channels are transmitted over a single optical fiber, each at a different wavelength. OPTICO offers a wide range of high specification GFF or GFF hybrid devices.
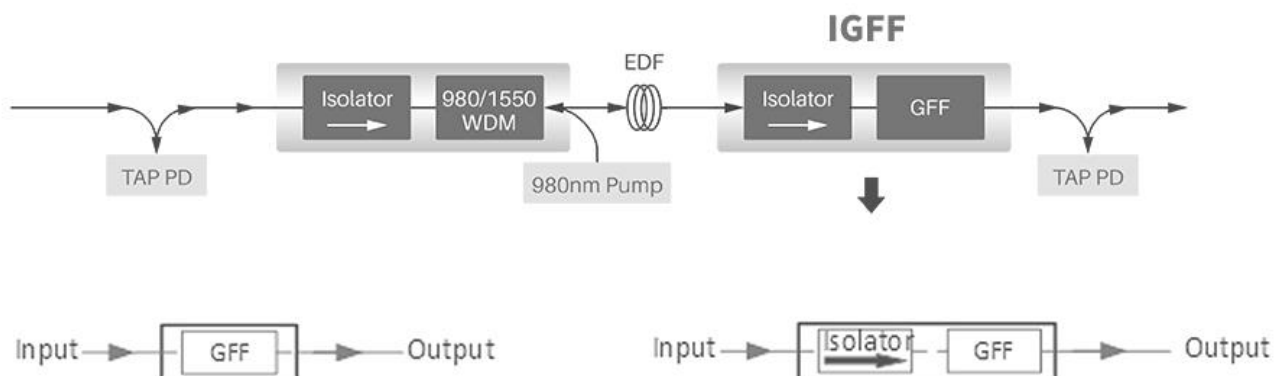
- **Advantages**

- High channel isolation
- High reliability and stability
- CE/ISO/ROHS √
- High reliability and stability
- Lower insertion loss
- High precision instrument, integrated design
- Customizable package forms are available
- Ultra-low center wavelength deviation

- **Structure Diagram(Unit: mm)**
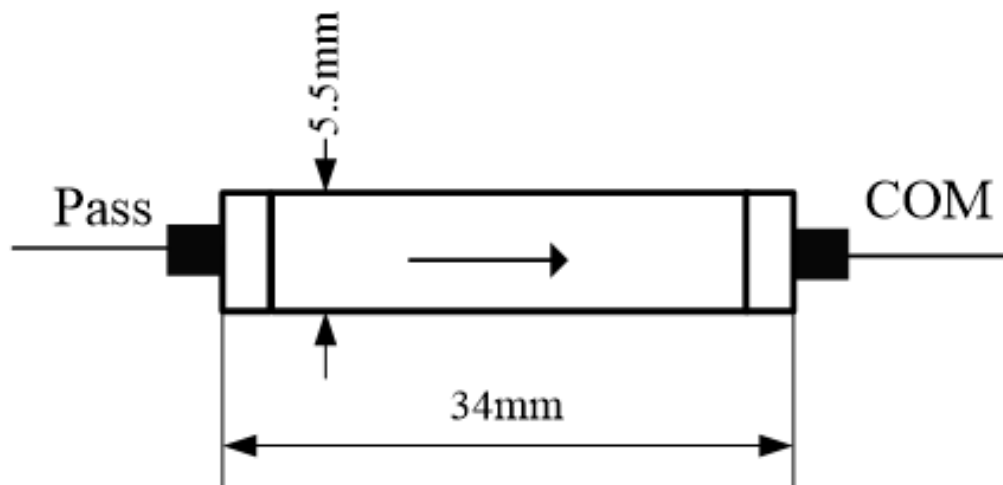
- Ideal for Lab application:

- Specifications:

Parameters	1x1 1550nm GFF	Remarks
Configuration	1x1	/
Center wavelength(nm)	1550	/
Center wavelength deviation(nm)	±0.1	/
Pass band(nm)	C band	/
Pass Channel Insert Loss(dB)	≤1.0	/
Pass channel isolation	> 25	
Stop Band Width@-25dB(nm)	< 4.0	
Pass Band Width@-0.5dB(nm)	> 2.0	
Wavelength Thermal Stability(nm/℃）	≤0.002	
Insert Loss Thermal Stability (dB/℃）	< 0.005	Typical total temperature loss changes within 0.2dB
Return Loss(dB)	>50	
Directivity(dB)	>50	
PDL(dB)	< 0.1	
PMD(dB)	< 0.1	
Power Handing(mW)	500	
Fiber Type	G657A1 or as request	

- PN number: OP-WDM-F-550-2DB-00