

[OEFBG-WDM-SIN-XXX]

## DWDM Filter (FBG only)

### 6.25/12.5/25/50/100/200 GHz

#### Features:

- Best specifications available in the industry
- Centre wavelength on ITU grid, or customer specified
- SM or PM-fibers
- Connector: FC-SC-LC/PC; FC-SC-LC /APC
- Different packages available
- Cost-effective

#### Applications:

- Add / Drop filters
- Multiplexer / Demultiplexer
- WDM based FBG sensing

#### Product description:

The FBG-DWDM Fiber Bragg Grating filters have gained more attention because of their flat top and steep spectrum slope. With our unique apodization mask technology and our world class FBG writing technology, DWDM fiber grating filters have been made with more than 40 dB isolation and with a reflection bandwidth at -25dB of less than 1 nm (100 GHz), 0.5 nm (50 GHz), 0.25 nm (25 GHz) and 0.13 nm (12.5 GHz), 0.06 nm (6.25 GHz). Our high quality DWDM fiber grating filter is the best in the industry and shows that it is ideal for any kind of DWDM system applications.

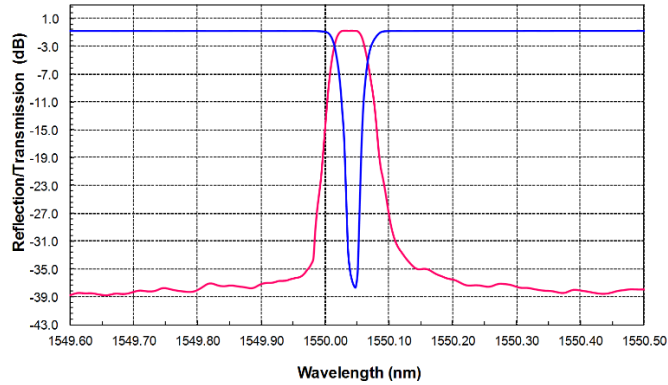
#### Specifications:

Model number		Unit	OEFBG-WDM-SIN-200	OEFBG-WDM-SIN-100	OEFBG-WDM-SIN-050	OEFBG-WDM-SIN-025	OEFBG-WDM-SIN-012	OEFBG-WDM-SIN-006
Channel spacing		GHz	200	100	50	25	12.5	6.25
FBG central wavelength		nm	ITU grid; Custom: 1250-1675 nm					
Reflection Bandwidth @	-0.5 dB	nm	> 0.6	> 0.3	> 0.15	> 0.08	> 0.04	> 0.02
	-3 dB	nm	< 1.6	< 0.8	< 0.4	< 0.2	< 0.1	< 0.05
	-25 dB	nm	< 2.0	< 1.0	< 0.5	< 0.25	< 0.13	< 0.06
Transmission Bandwidth @	-25 dB	nm	> 0.4	> 0.2	> 0.1	> 0.05	> 0.03	> 0.01
Reflectivity		%	> 99.9					
Channel Isolation*		dB	> 25					
CWL thermal stability**		pm/C°	< 1.0					
Operating temperature		°C	-5 to 50					
Fiber type			SM; PM					
Standard fiber length		m	1.5					

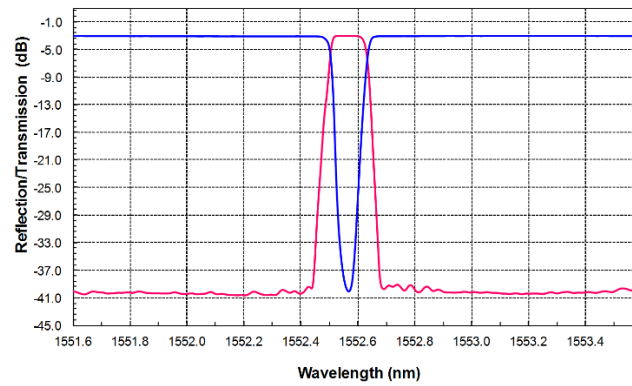
\* Higher isolation available on request

\*\* With Athermal package

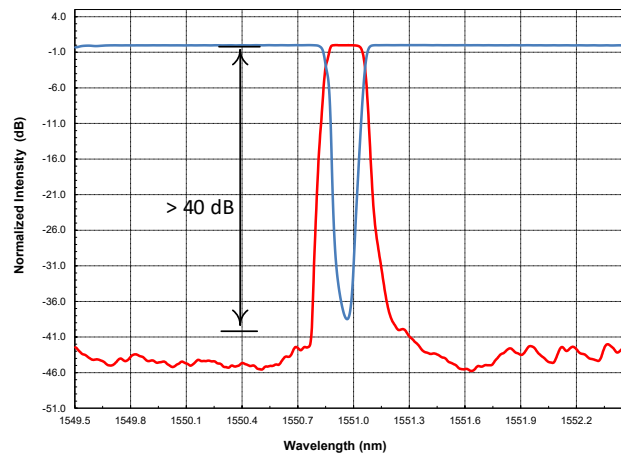
Sample FBG-DWDM spectrum:



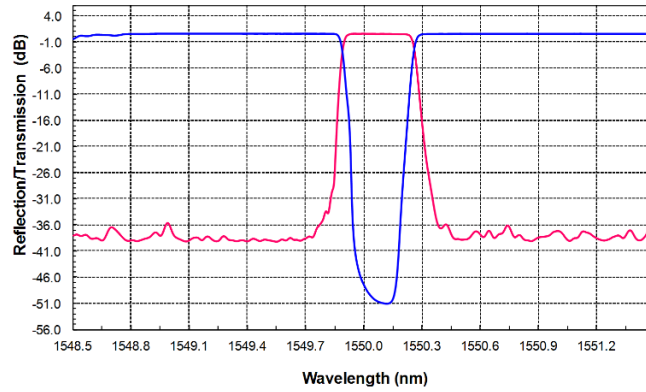
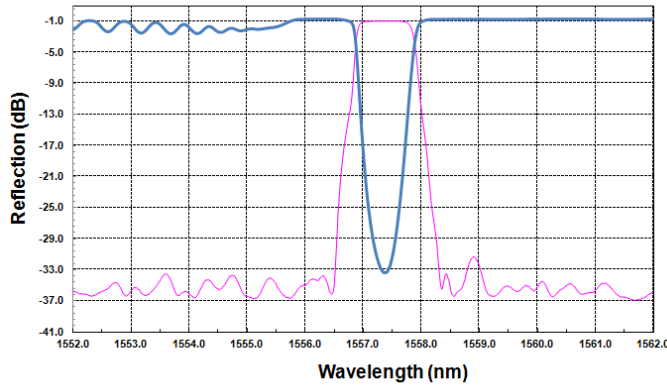
**OEFBG-WDM-SIN-012 (12.5GHz DWDM FBG)**



**OEFBG-WDM-SIN-025 (25GHz DWDM FBG)**



**OEFBG-WDM-SIN-050 (50GHz DWDM FBG)**


**OEFBG-WDM-SIN-100 (100GHz DWDM FBG)**

**OEFBG-WDM-SIN-200 (200GHz DWDM FBG)**
**Ordering number OEFBG-WDM-SIN:**

Channel spacing	CWL (nm)	Package	Pigtail type	Connector	Fiber Length	
006 (6.25 GHz)	Center Wavelength	Standard	P1	Bare fiber T1	FC/PC C1	Default: 1m Custom: indicate value
012 (12.5 GHz)		Athermal	P2	900 Tubing T2	FC/APC C2	
025 (25 GHz)		None	P3	3mm Jacket T3	SC/PC C3	
050 (50 GHz)					SC/APC C4	
100 (100 GHz)					LC/PC C5	
200 (200 GHz)					LC/APC C6	
Example:	OEFBG-WDM-SIN-050-1565.5-P1-T2-C3-1.5					

Note: Customers who use Fiber Bragg Gratings (FBGs) or incorporate them with their own products, must buy their FBGs from a licensed manufacturer. O/E LAND INC. has full License Agreement from CRC/UTC Fiber Bragg Grating Technologies Portfolio.