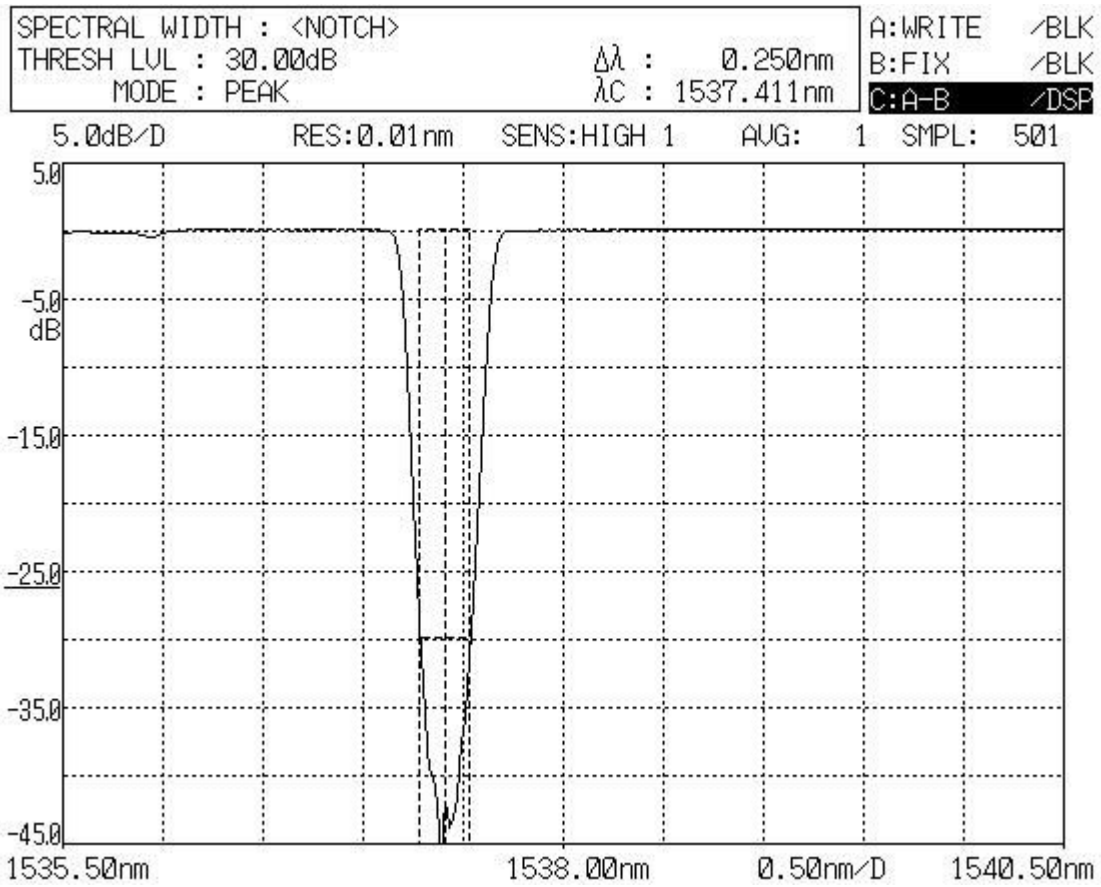
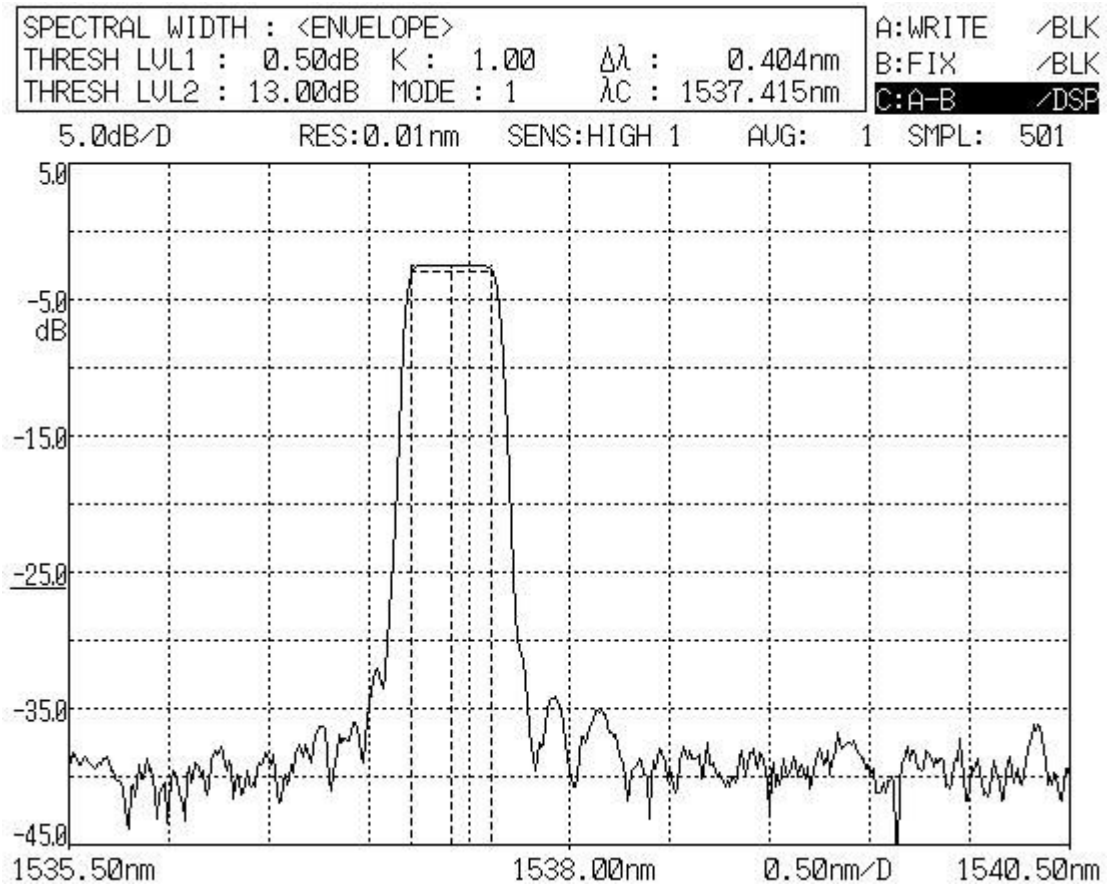
DWDM FBG

Description

In DWDM system, the high channel isolation is necessary to avoid cross talk between channels. The DWDM Gratings are applied in disjunctive or insertion pathway to increase or decrease the filter. Idealphotonics offers 50/100/200GHz gratings spacing ITU grid, it has a flat top, high isolation, low insertion loss and low polarization dependent loss characteristics. The DWDM gratings are available individually packaged or be combined with multiple filters as a multiplexer/demultiplexer





Feathure

High spectral efficiency and low insertion loss
Good Dispersion characteristics High Isolation
Low Polarization Dependent Loss

Application

●DWDM System
●ASE Filtering and CW Locking OADM Module

Specification

Parameter	Unit	Specification	Tolerance
Center Wavelength	nm	S+C+L band	Custom
Reflectivity	%	> 99.95	—
Bandwidth (FWHM)	nm	50/100/200GHz Spacing ITU Grid At 50&100GHz Spacing or Custom	Bandwidth:100GHz Reflection@-0.5dB : >0.3 Reflection @-25dB : 0.75 Bandwidth:50GHz Reflection @-0.5dB : >0.2 Reflection @-25dB : 0.5
Adjacent Channel	dB	>25	—
Insertion loss	dB	Typical 0.2	—
Cladding mode loss	dB	<0.4	With double cladding suppressed fiber
Optical Connector	—	FC/APC, FC/UPC	Custom
Fiber Type	—	Corning SMF-28 or equivalent	—

Ordering Information：

IDPFBG– 1550.1 – 99.5 – 2.0 – A – T
① ② ③ ④ ⑤

① ： Center Wavelength
② ： Reflectivity
③ ： Bandwidth（FWHM）
④ ：Optical Connector：A：FC/APC，B：FC/UPC，C：Custom，N：None
⑤ ： Athermal Packaging：T：Standard,C：Custom,N：None