# FBG Filter of 50GHz 1550nm

## Product Description

Fiber Bragg gratings are widely used components in optical communications. FBGs act as narrowband filters in optical fibers. Bragg gratings are printed in optical fibers by a holographic process. They can be produced either with standard single-mode fibers or with special fibers, namely radiation-mode suppressed fibers used to reduce cladding mode losses.

## Product features

For 2.5 Gbps and 10 Gbps DWDM system technology 、ASE screening 、100 GHz and 50 GHz Channel Spacing Add-Drop Multiplexer

## Part Number

MP-FBG-1550-120-FA

## Application area

DWDM technology for 2.5 Gbps and 10 Gbps systems、 ASE filtering、 Multiplexers for 100 GHz and 50 GHz channel spacing

## Core parameters

| Center Wavelength | Passband Bandwidth |
|---|---|
| 1550±0.1nm | ±120pm |

## General Parameters

| Parameter | Advanced | Standard |
|---|---|---|
| Wavelength | 800 .. 1620nm | 1280 .. 1340nm; 1520 ..1620nm |
| Reflectivity | 5 .. 99.99% | |
| FWHM | 50GHz / 100GHz / 200GHz spacing (customizable ) | |
| Passband bandwidth | > +/- 0.12 nm | |
| Insertion loss | <0.1 dB | |

| Parameter | Advanced | Standard |
|---|---|---|
| PDL | <0.2 dB | |
| SNR Adjust Channel | >25 dB | >20 dB |
| SNR Non-adjusted channels | >30 dB | >25 dB |
| Terminal connection method | Bare fiber, FC/PC, FC/APC, ST, SC/PC, SC/APC, DIN, SMA | |
| Encapsulation | 3mm standard tube, 9mm athermal , boxed | |
| Operating temperature | 0° .. 70° | |

## Spectrum and delay characteristics (50 GHz spacing )