

# Athermal Package 1550nm Dispersion Compensation Grating Filter (Dispersion Compensation 16.675 psnm)



## ● Product Description

In fiber optic telecommunication systems, dispersion effects must be corrected for data rates of 10Gb/s or higher. Applying its expertise in fiber Bragg gratings, we offer dispersion compensating grating filters to correct for dispersion. Dispersion compensating grating filters feature small size,



low insertion loss and customized dispersion slope. Our unique fiber Bragg grating apodization technology enables us to manufacture dispersion compensating grating filters with high isolation, low side lobes and low ripple. The figure below is the reflection spectrum of our dispersion compensating grating filter. All fiber Bragg gratings are tested to ensure that they meet the highest quality standards. Technical support is available to meet each customer's specific application: from prototype development to full product manufacturing.

## ● Product features

Central wavelength on the ITU grid 、 Non-thermal packaging 、  
Comprehensive engineering support

## ● Part Number

MP-NTF-1550-1-DC

## ● Application area

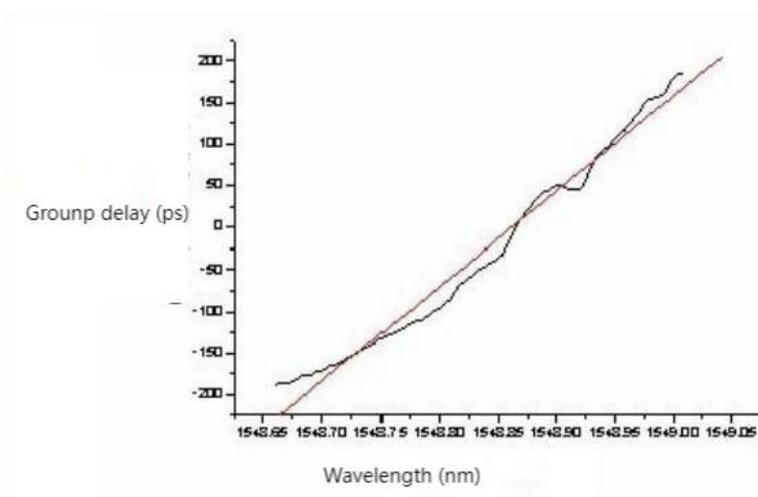
High-speed optical fiber communication | Long-distance transmission  
systems | Dispersion compensation | Optical network optimization |  
Scientific research experiments

## ● Core parameters

Wavelength	Dispersion compensation
1520-1565nm	16.675 ps/nm

## ● General Parameters

Parameter	Unit	Value
Wavelength	nm	1520 - 1565
Dispersion compensation	ps/nm	700 - 1400 (customized 16.675 ps/nm or 28.5857ps/nm)
FWHM Bandwidth	nm	1.0 - 0.5
Ripple	ps	$\pm 20$
Insertion loss	dB	< 0.5





**Figure 1: Dispersion curve**



**Figure 2 : Dispersion-compensating fiber Bragg gratings using a thermal packaging**

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