

## Fiber Grating Dispersion Compensation Module



Fiber Grating Dispersion Compensator(DC-FG) and Fiber Grating Dispersion Compensation Module(DCM-FG) provide a cost-effective solution for correcting dispersion impairments in optical transmission systems. Dispersion Compensation Module of Chirped Fiber Grating is consisted of Chirped Fiber Grating and Circulatory/ Coupler. They have the virtues of small size, low insertion loss, low polarization mode dispersion and non-linear effect minimized. The products are compliant with Telcordia GR-1209-CORE.

### Features

- Cost-effective solution for dispersion compensation
- Non-linear effects minimized in high-power applications
- Low insertion loss regardless of dispersion value
- Compacted passive athermal package
- Low group delay ripple ensures minimal system penalties

### Applications

- Dispersion compensation in 10Gb/s and 40Gb/s systems
- Single-channel & multi-channel sub-band compensation
- Dispersion pre-compensation at transmitters
- In-line dispersion compensation at EDFA sites
- Dispersion post-compensation at receivers

### Specifications

Parameter	Unit	Value	
		DC-FG	DCM-FG
Central Wavelength	nm		ITU-T Grid
Channel Space	GHz		50,100
Min. Reflection Bandwidth @0.5dB	nm		0.4
Dispersion Value <sup>1</sup>	ps/nm		680~1700
Raw Group Delay Ripple (Maximum)	ps		±20
Insertion Loss (Maximum)	dB	1.2	2.4 <sup>2</sup> 7.7 <sup>3</sup>
Polarization Mode Dispersion (Maximum)	ps		1
Polarization Dependent Loss (Maximum)	dB		0.3
Wavelength Stability (-10~70°C) (Maximum)	nm		0.07
Operation temperature	°C		0~65
Storage temperature	°C		-40~85
Dimensions (W× H×L)	mm	22×12×174	56×15×192

1. Measured with a modulation frequency of 1 Gba. 2. Circulator Type. 3. Coupler Type