

Single Channel FBG DCM Module

Fiber Gratings Dispersion Compensation Module (DCM-FG) provide a cost-effective solution for correcting dispersion impairments in optical transmission systems. They are higher cost performance than optical fiber DCM. Fiber Gratings Dispersion Compensation Module is consisted of Fiber Gratings and Circulator/Coupler. The products are Telcordia GR-1221-CORE qualified, and RoHS compliant.



Applications

SDH/SONET system

Features

- Low insertion loss
- High Non-linear tolerance power
- High compact package

Specifications

Parameter	Unit	Value	
Center Wavelength@-0.5dB BW ¹	nm	ITU-T Grid	
Reflection Bandwidth (-0.5dB)	nm	0.4	
Dispersion Value ^{1, 2} (-0.5dB Bandwidth)	ps/nm	-680, -1020, -1360, -1700	
Group Delay Ripple	ps	±25	
Insertion Loss ³	dB	3.5 (Circulator type)	8.0 (Coupler type)
PMD	ps	<1	
PDL	dB	<0.5	
Wavelength Stability (-10~+70°C)	nm	0.07	
Operating temperature	°C	0~+65	
Storage temperature	°C	-40~+85	
Package	mm	192× 56 ×15	

Notes: 1. These specifications could also be customized
 2. Dispersion compensation value is designed for G.652 fiber
 3. Insertion loss excludes the connectors

Ordering Information

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Module Type	Wavelength	Dispersion	Fiber Dia.	Fiber Length	Connector
CI:circulator CO:coupler	Customer design ITU-T standard wavelength	01: -680ps/nm 02: -1020ps/nm 03: -1360ps/nm 04: -1700ps/nm customer specify	09:Φ0.9mm	1:1.0m customer specify	00:no connector FC,SC,LC,MU/UPC,APC