

## Multi-Channel FBG DCM Module



### Product Introduction

Fiber Gratings Dispersion Compensation Module(DCM-FG) provide a cost-effective solution for correcting dispersion impairments in optical transmission systems. The product is an attractive alternative to dispersion compensation fiber(DCF) in cost-sensitive metro networks since its small footprint minimizes space and its insertion loss. The product supports high input powers and allows 100% slope and dispersion compensation making it equally easy for use in long haul transmission system. The products are Telcordia GR-1221-CORE qualified, and RoHS compliant.

### Features

- Full C or L band coverage
- 100% slope compensation
- High power handling
- Low insertion loss regardless of dispersion value

### Applications

- DWDM system

Specifications

Parameters	Unit	Value												
Wavelength	nm	C Band						L Band						
Operating bandwidth	GHz	>30						>30						
Channel spacing	GHz	100						100						
Compensation length	Km	20	40	60	80	95	100	120	60	80	100	120		
First channel dispersion	ps/nm	-314.0	-628.1	-942.1	-1256.1	-1491.6	-1570.1	-1884	-1070	-1427	-1784	-2140		
Last channel dispersion	ps/nm	-359.5	-719.1	-1078.6	-1438.1	-1707.8	1797.7	-2157	-1217	-1623	-2028	-2434		
Group delay ripple	ps	<15	<15	<15	<15	<20	<20	<25	<15	<15	<20	<25		
PMD	ps	<0.7	<0.7	<1.0	<1.5	<1.5	<1.5	<1.5	<1.0	<1.0	<1.5	<1.5		
Insertion loss	dB	<3.5(Circulator type)			<8(Coupler type)			<5.0(CI)	<3.5(Circulator type)			<8(Coupler type)		
Insertion Loss ripple	dB	<0.4												
Channel uniformity	dB	<0.5												
PDL	dB	<0.3												
Dispersion bias		<5%												
Dispersion slope		Matched with SMF-28 G.652												
Operating temperature	°C	0~70°C												
Storage temperature	°C	-40~85°C												
Package	mm	207x65x9												

Ordering Information

DCM-M- □-□-□-□-□-□-□

