

DCM-G.655-C-Fxx series •
Dispersion Compensation Module

Technical index

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1.0 PRODUCT DESCRIPTION

Huatai DCM-G.655-C-Fxx dispersion compensation fiber module is designed for single mode optical fiber G.655 C band, dispersion and dispersion slope compensation for wide band, the system optimized residual dispersion. The PCVD module based on optical fiber technology is mature and reliable, can improve the performance of optical transmission system.

2.0 Product feature

- DWDM system wide band dispersion compensation and low participation dispersion
- G.655 100% C band dispersion compensation fiber
- Dispersion compensation value range is 10~200Km optional.
- Low insertion loss
- Low polarization mode dispersion
- Excellent performance price ratio

3.0 Main application

- Big effective area of G.655 optical fiber long and Metro Communication System
- DWDM transmission system
- CATV cable TV system
- Dispersion adjustment

4.0 Technical index

Feature		Index			Supplement
		Min.	Typ.	Max.	
Working wavelength	(nm)	1528		1565	
Compensated optical fiber length	(Km)		10		F10
			20		F20
			40		F40
			60		F60
			80		F80
			100		F100
			120		F120
			160		F160
			200		F200
Dispersion Value (1545nm)	(ps/nm)	-33	37	41	F10
		-69	75	81	F20
		-138	150	162	F40
		-202	220	242	F60
		-280	300	320	F80
		-350	370	390	F100
		-420	450	480	F120
		-600	600	640	F160
		-700	750	800	F200
Insert Ioss	(dB)			4.7	F10
				4.7	F20
				4.7	F40
				5.5	F60
				5.9	F80
				6.5	F100
				7.1	F120
				8.3	F160
				9.5	F200
Polarized Mode Dispersion (PMD)	(ps)		0.4	0.5	F10
			0.4	0.5	F20
			0.4	0.5	F40
			0.5	0.6	F60
			0.6	0.7	F80
			0.7	0.8	F100
			0.8	0.9	F120
			0.9	1.0	F160

			1.0	1.1	F200
RSD	(nm ⁻¹)	0.022+/-20%			
Return loss	(dB)			-45	
Optical fiber connector		LC/UPC,SC/ACP,MU/UPC			
Work Temp.	(°C)	-5		+70	
Store Temp.	(°C)	-40		+85	
Size	(mm)	483×279×44			(W)×(D)×(H)

5.0 PRODUCT SERIES

Model number	Compensate optical fiber length (Km)	Dispersion value 1545nm (ps/nm)	Polarize mode dispersion(ps)	Insert loss (dB)
DCM-G.655-C-F10	10	37	0.5	4.7
DCM-G.655-C-F20	20	75	0.5	4.7
DCM-G.655-C-F40	40	150	0.5	4.7
DCM-G.655-C-F60	60	220	0.6	5.5
DCM-G.655-C-F80	80	300	0.7	5.9
DCM-G.655-C-F100	100	370	0.8	6.5
DCM-G.655-C-F120	120	450	0.9	7.1
DCM-G.655-C-F160	160	600	1.0	8.3
DCM-G.655-C-F200	200	750	1.1	9.5

6.0 Model explanation

DCM – G.655 – C – F□□ – □□ – □ / □□

Product series	Fiber	Wavelength		Compensating fiber length		Connector		Exterior		Optical port position	
Dispersion compensator module	G.655	C	C-Band 1528~1565nm	10	10Km	LA	LC/APC	1U	19" 1RU	F	Front panel
	G.652			20	20Km	LP	LC/UPC	ML	Modulator	B	Back panel
				40	40Km	SA	SC/APC				
				60	60Km	SP	SC/UPC				
				80	80Km	FA	FC/APC				
				100	100Km	FP	FC/UPC				
				120	120Km						
				160	160Km						
				200	200Km						