

# Dispersion Compensation Module

MX-DCM-C-Fxx



Maxcom's Dispersion Compensation Modules provides fixed chromatic dispersion compensation for DWDM and CATV networks. The DCMs are available for a range of distances in 20 km increments (between 20 and 120 Km).

Maxcom DCMs are built to minimize the basic principles behind dispersion compensation. As longer wavelengths travel faster than shorter wavelengths, the DCM will help the pulse reshape itself into its original form.

## Features

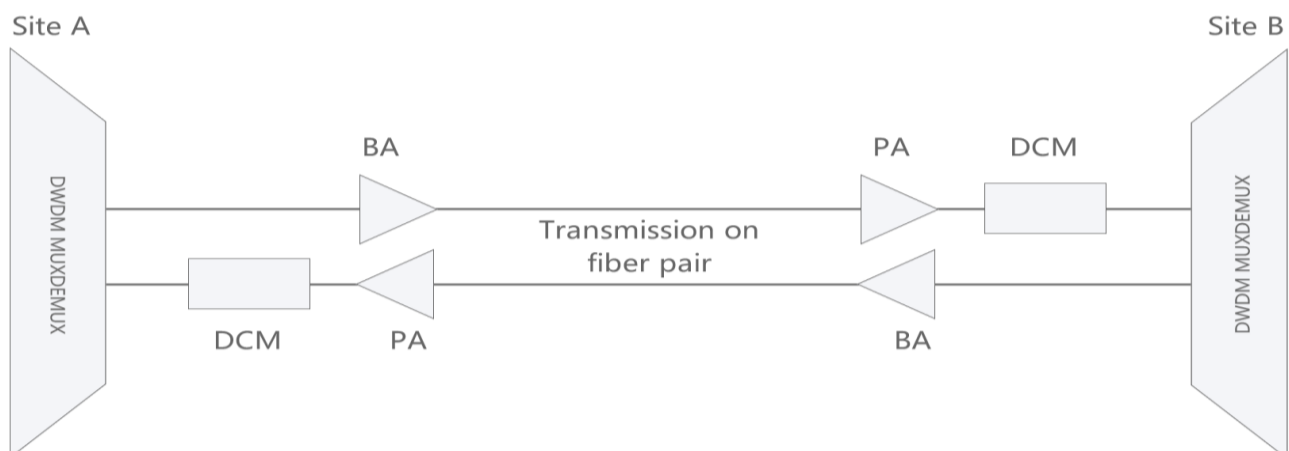
- Supports standard single mode optical fiber G.652, 1525~1565nm transmission channel
- Excellent dispersion compensation feature designed to eliminate the influence to system's index, due to residual dispersion
- G.652 100% C-band dispersion compensation fiber
- Dispersion compensation value range is 20~120Km optional
- Low insertion loss
- Low polarization mode dispersion
- Excellent performance price ratio

## Application

- G.652 standard single mode fiber, 1525 ~ 1565nm wavelength range and chromatic dispersion slope compensation
- DWDM system in long distance fiber transmission
- Long distance optical fiber link, satellite, microwave transmission



## Example Application:



## Technical Index

Product Type	F20	F40	F60	F80	F100	F120
Dispersion value@1545nm (ps/nm)	-340±10	-680±20	-1020±30	-1360±40	-1700±50	-2040±60
Optical fiber insertion loss (1525~1565nm) (dB)	≤3.4	≤4.7	≤6.2	≤7.9	≤9.2	≤11.0
Polarization mode dispersion (PMD) (ps)	≤0.3	≤0.4	≤0.5	≤0.6	≤0.7	≤0.8
Polarization dependent loss (PDL) (dB)	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1

## General Information

Feature	Index	Supplement
Storage Temp. (°C)	-40~85	
Size (mm)	483×279×44	(W)×(D)×(H)
Operational wavelength (nm)	1528~1565	
Through power (dBm)	≤23	
Optical fiber connector	SC/APC	

Notes: 1.Specified with connectors and adapters.

### Maxcom Part Numbers: **MX-DCM-C-Fxx**

XX = Selectable Distance in Km. User may select: 20, 40, 60, 80, 100, 120

Units come standard as 1RU 19" Rack Mount with SC/APC Connectors

Supports standard single mode optical fiber G.652



## Layout and Dimension

