

# Dispersion Compensation Module

Optilab DCMs (Dispersion Compensation Modules) are rack-mountable spools of dispersion compensating fiber for DWDM networks.

DCM Dispersion Compensation Module



## Product Description

The QAMnet DCM (Dispersion Compensation Modules) are rack-mountable spools of dispersion compensating fiber for DWDM networks. The DCMs are used to counteract the effects of chromatic dispersion in single mode fiber used in DWDM networks. This will increase, reduce, or eliminate Bit Error Rate (BER) during transmission.

Used in conjunction with Optilab DWDM EDFAs, DCMs can extend transmission distance in DWDM networks. QAMnet DCMs are passive devices which do not require power or maintenance. It is available in 40 km, 60 km and 80 km versions.

## Features

- Passive device
- Low insertion loss
- Compensates up to 40 channels of DWDM signal in C-Band

## Applications

- ✓ DWDM

## PRODUCT SPECIFICATIONS

### Optical Specifications

Designed for Optical Fiber	SMF-28, Single Mode Fiber (ITU G.652)
Wavelength Range	1525 nm to 1565 nm
PMD (Average)	1.0 ps max.
Slope efficiency	> 65%
<b>DCM-40</b>	
Chromatic Dispersion Value	-680±10 ps/nm , for 40 km distance
Insertion Loss	3.8 ±0.5 dB
<b>DCM-60</b>	
Chromatic Dispersion Value	-1020±10 ps/nm , for 60 km distance
Insertion Loss	5.1 ±0.5 dB
<b>DCM-80</b>	
Chromatic Dispersion Value	-1360±10 ps/nm , for 80 km distance
Insertion Loss	6.5 ±0.5 dB

### Mechanical Specifications

Housing Type	Rack mount, Aluminum
Connectors	FC/UPC, SC/APC, or customer specified
Housing Dimensions	13.75in (L) x 19in (W) x 1.75in (H)

### Ordering Information

<b>DCM-xx</b>	
xx	40, 60, 80; To compensate 40 km , 60 km, or 80 km of transmission