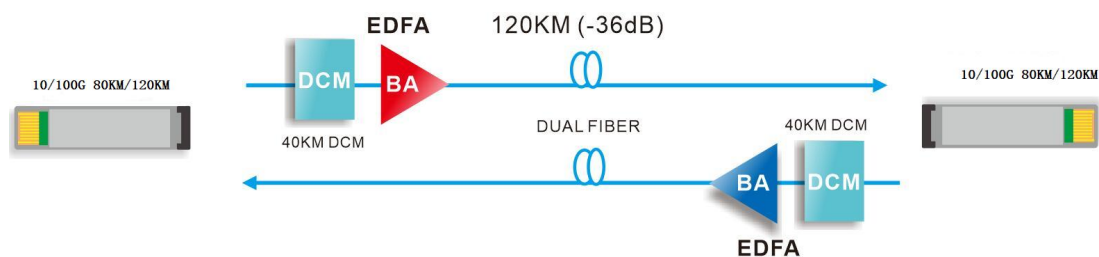


Dispersion Compensation Module



Applications



- ❖ Long Distance Trunk Network
- ❖ DWDM System

Description

The Dispersion Compensation Module (DCM) is used to fix the optical signal forms distorted by chromatic dispersion. The main component of DCM is DCF (Dispersion Compensating Fiber), which has a negative dispersion value in the wavelength range of 1525nm to 1565nm. The module provides a high level of compensation while maintaining low flat insertion loss and low latency. When combined with Fiber Mall's EDFA and OEO, DCM offers a simple, reliable, and cost-effective solution for long-distance transmission, allowing signals to travel farther without regeneration.

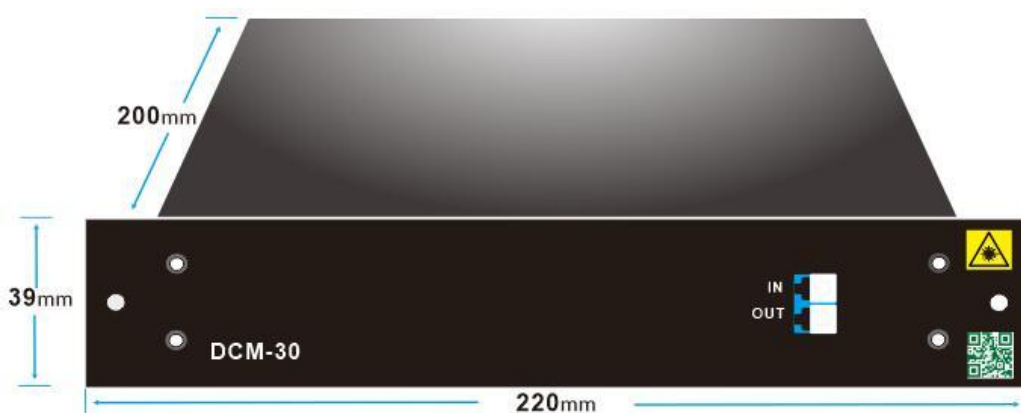
Product Specification

Parameter		Unit	Value		
			MIN	Typical	MAX
Dispersion Value	10KM	ps/nm	-165	-170	-175
	20KM		-330	-340	-350
	30KM		-495	-510	-525
	40KM		-660	-680	-700
	60KM		-990	-1020	-1050
	80KM		-1320	-1360	-1400
	100KM		-1650	-1700	-1750
	120KM		-1990	-2040	-2090
Center wavelength		nm		1550.12	
Reflection Bandwidth(0.5dB)		nm		0.4	
Insertion Loss	10KM	dB			2.6
	20KM				3.5
	30KM				3.8
	40KM				5.2
	60KM				6.8
	80KM				8.0
	100KM				9.5
	120KM				11.5
PMD		ps			1.0
PDL		dB			0.5
Wavelength Stability		nm			0.07
Package		Module			
		1U rack			

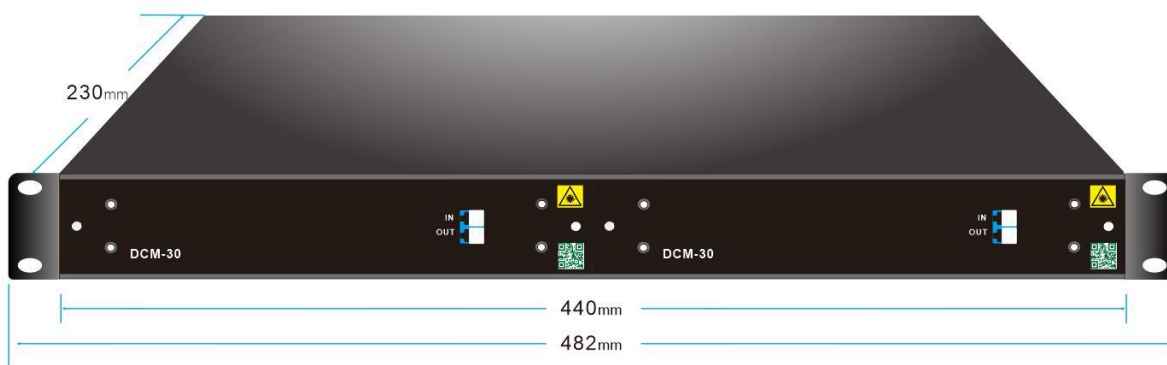
Product Panel



Mechanical Structure



DCM LGX Box Module



2-slot 1U Rack, support plug in 2 DCM Module

Ordering Information

Part Number	Product Description
DCM-10-LGX	DCM 10km, Passive Dispersion Compensation Module, LC/UPC Connector, Plug-in LGX Box
DCM-20-LGX	DCM 20km, Passive Dispersion Compensation Module, LC/UPC Connector, Plug-in LGX Box
DCM-30-LGX	DCM 30km, Passive Dispersion Compensation Module, LC/UPC Connector, Plug-in LGX Box
DCM-40-LGX	DCM 40km, Passive Dispersion Compensation Module, LC/UPC Connector, Plug-in LGX Box
DCM-60-LGX	DCM 60km, Passive Dispersion Compensation Module, LC/UPC Connector, Plug-in LGX Box
DCM-80-LGX	DCM 80km, Passive Dispersion Compensation Module, LC/UPC Connector, Plug-in LGX Box
DCM-100-LGX	DCM 100km, Passive Dispersion Compensation Module, LC/UPC Connector, Plug-in LGX Box
DCM-120-1U	DCM 120km, Passive Dispersion Compensation Module, LC/UPC Connector, 1U Rack
FM-1U19-2LGX	19" 1U Rack with 2 Slot for Plug-in LGX box, 440*230*44mm