



DATASHEET

DCM-xx

Continuous Dispersion Compensation plug-in module (DCM) G.652, 3.7dB, LC

OVERVIEW

The DCM-xx dispersion compensation units are based on the Fiber Bragg Grating (FBG) technology which provides a full-band and channel plan independent compensation.

FBG-based DCMs only have a fraction of the total loss compared to fiber-based equivalents. FBG also provides a latency in the order of nanoseconds as compared to microseconds in fiber-based solutions. The FBG based DCMs are designed to perfectly mimic the dispersion and dispersion slope characteristic of G.652 fiber type. Low residual dispersion is crucial when migrating to higher bit rates.

The DCM-xx products tolerate high optical power without suffering from penalties caused by non-linear effects. Non-linear effects are not introduced even at the highest power level present throughout any traditional network.

Six versions of the DCM-xx modules are provided, ranging from 20km up to 120km. Two DCM-xx plug-in modules can be mounted in the 1RU mechanical holder DCM-MB-2-19.

TECHNICAL DATA

Parameter	Value
Technology	Fiber Bragg Grating (FBG)
Connector type	LC
Fiber type	G.652
Compensation lengths	20, 40, 60, 80, 100, 120km
Frequency range	C-band
Operating temperature	-5°C to +70°C
Storage temperature	-40°C to +85°C

Parameter	Value
Insertion loss	~3.7dB (for all lengths)
Channel spacing	NA
Dimensions	197 x 212 x 22.5mm



ORDERING INFORMATION

Part number	Description
DCM-MB-2-19	1RU, 2-slot, 19" Mounting brackets for DCM
DCM-20	20km continuous dispersion compensation plug-in module (DCM) G.652, Attenuation 3.7dB, LC
DCM-40	40km continuous dispersion compensation plug-in module (DCM) G.652, Attenuation 3.7dB, LC
DCM-60	60km continuous dispersion compensation plug-in module (DCM) G.652, Attenuation 3.7dB, LC
DCM-80	80km continuous dispersion compensation plug-in module (DCM) G.652, Attenuation 3.7dB, LC
DCM-100	100km continuous dispersion compensation plug-in module (DCM) G.652, Attenuation 3.7dB, LC
DCM-120	120km continuous dispersion compensation plug-in module (DCM) G.652, Attenuation 3.7dB, LC

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