

DIGICOMM DISPERSION COMPENSATION MODULES (DCM)

FEATURES

- LGX Chassis-Compatible
- Two LGX Slots Wide
- Designed for Analog and Digital Transport Systems
- Fully Passive
- SC/APC connectors
- Low-Insertion Loss
- Low Polarization Mode Dispersion
- Extensive Inventory IN-STOCK at our Distribution Center in Englewood, CO
- Fast-Track Fulfillment (most orders ship same-day)



OVERVIEW

Digicomm's family of Dispersion Compensation Modules (DCM) are designed to reverse the effects of dispersion that naturally occur in both digital and analog transmission systems. Using custom, low-loss fiber, Digicomm's DCMs have minimal impact on an optical links overall link budget, critical in long distance transport.

Digicomm's DCMs are designed in an LGX compatible package, and have an extended operating temperature range enabling use in both indoor environments as well as in non-temperature controlled cabinets in the field.

SPECIFICATIONS

Compensation Distance (km)	Dispersion (ps/nm)	Insertion Loss (dB)*	PMD (ps)	PDL (dB)
20	-340±3%	1.9	≤0.6	≤0.1
30	-510±3%	2.8	≤0.7	≤0.1
40	-680±3%	3.2	≤0.8	≤0.1
50	-850±3%	3.5	≤0.9	≤0.1
60	-1020±3%	3.7	≤0.10	≤0.1
70	-1190±3%	4.2	≤0.11	≤0.1
80	-1360±3%	4.6	≤0.12	≤0.1

* - Insertion loss may increase by 0.02 dB when used in temperatures below -5° C

PHYSICAL	
Dimensions (cm.)	12.9H, 15.2D, 5.8W
Dimensions (in.)	5.1H, 6.0D, 2.28W

ENVIRONMENTAL	
Storage Temperature	-40° C to 80° C
Operating Temperature	-40° C to 60° C

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
DCM-LGX-20-SA	Module, Dispersion Compensation, LGX Style, 20km, SC/APC
DCM-LGX-30-SA	Module, Dispersion Compensation, LGX Style, 30km, SC/APC
DCM-LGX-40-SA	Module, Dispersion Compensation, LGX Style, 40km, SC/APC
DCM-LGX-50-SA	Module, Dispersion Compensation, LGX Style, 50km, SC/APC
DCM-LGX-60-SA	Module, Dispersion Compensation, LGX Style, 60km, SC/APC
DCM-LGX-70-SA	Module, Dispersion Compensation, LGX Style, 70km, SC/APC
DCM-LGX-80-SA	Module, Dispersion Compensation, LGX Style, 80km, SC/APC