

DCM-nnn

DISPERSION COMPENSATING MODULE

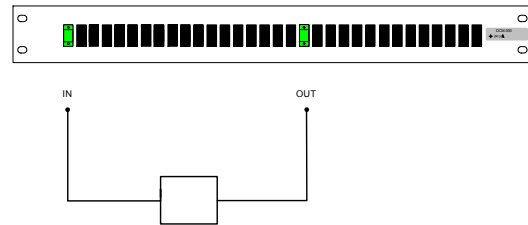
Application

- ▶ Compensation of positive dispersion of G.652 single mode fiber (SMF) in transmission links
- ▶ Improvement of CSO performance of fiber-optic links fed by externally modulated transmitters (ES10 and OTXE090)
- ▶ Improvement of CSO performance of fiber-optic links fed by directly modulated transmitters (BOT/OTXD1550X and DS26/BOTS/OTXDS1550X)



Features

- ▶ Dispersion compensation of nnn = 20, 30, 40, 50, 60, 80 or 100 km of SMF
- ▶ Very low insertion loss
- ▶ Compensation over entire C-band (1530-1560nm)
- ▶ Low PMD
- ▶ Available in:
 - compact housing with pigtails DCM-nnn-x
 - 19"-1HU housing with adaptors DCM-nnn-x-H
- ▶ FC/APC, SC/APC or E2000 connectors



Technical Specifications

Types		DCM-020	DCM-030	DCM-040	DCM-050	DCM-060	DCM-080	DCM-100
Parameter	Dim.							
Wavelength	nm	1530 – 1560						
Equivalent G.652 length	km	20	30	40	50	60	80	100
Dispersion @ 1550nm (± 2%)	ps/nm	-340	-510	-680	-850	-1020	-1360	-1700
Relative dispersion slope	nm ⁻¹	0.0015 – 0.0055						
Insertion loss *) (1530-1560nm)	dB	≤1.9	≤2.4	≤2.8	≤3.3	≤3.7	≤4.6	≤5.5
PMD	ps	0.55	0.70	≤0.80	≤0.85	≤0.95	≤1.10	≤1.20
PDL	dB	≤0.10						

*) excluding connector loss