

DCM-8000

Dispersion Compensation Module



Product Description

DCM Dispersion Compensator has the capability of slope compensation which can supply the broad-band dispersion slope compensation for SMF-28 fiber (G.652) in whole C-band to optimize the system residual dispersion. With the mature and reliable optical fiber processing, the performance of optical transmission system can be improved. The dispersion range of 1550nm wavelength can achieve -10~-2100ps/nm. Special requirements in central wavelength and dispersion can be provided.

Application

1. Dispersion Control.
2. SDH high speed optical transmission system.
3. DWDM optical transmission system.
4. CATV long haul optical transmission system.

Feature

1. G.652 optical fiber C-band 100% slope compensation (Standard).
2. Low insertion loss.
3. Low Polarization mode dispersion.
4. DWDM system broad-band dispersion compensation.
5. Various Mechanical Structure, connectors are provided.
6. Recommend operation with mid-stage optical amplifier to get the excellent performance.

Datasheet

Compensation Distance (km)	Dispersion (ps/nm)	Dispersion Slope (ps/nm*nm)			Insertion Loss (dB)	PMD (ps)	PDL (dB)
20	-340±3%	-0.66	-0.98	-1.30	≤2.9	≤0.6	≤0.1
40	-680±3%	-1.33	-1.95	-2.60	≤4.8	≤0.8	≤0.1
60	-1020±3%	-2.00	-2.93	-3.95	≤6.8	≤1.0	≤0.1
80	-1360±3%	-2.67	-3.90	-5.20	≤8.7	≤1.2	≤0.1
100	-1700±3%	-3.30	-4.87	-6.50	≤10.7	≤1.3	≤0.1
120	-2040±3%	-4.10	-5.97	-7.80	≤12.9	≤1.4	≤0.1
140	-2380±4%	-4.8	-6.11	-9.12	≤14.8	≤1.5	≤0.1
160	-2720±4%	-5.20	-7.36	-10.40	≤16.8	≤1.6	≤0.1

Note:

- (1) Insertion Loss is the Max in operation wavelength (1525nm~1565nm).
- (2) The above-mentioned data is measured on the 1550nm wavelength.
- (3) PMD is the mean difference grouping delay for the measuring of Hones matrix Method.
- (4) 1U casing for 20~100km. 2U casing for 120~160km.