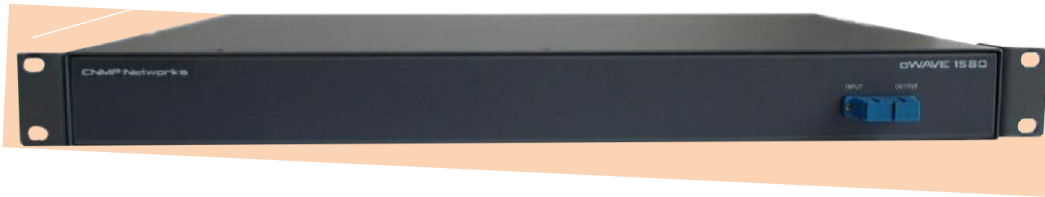


# oWAVE15xx Series Dispersion Compensation Module



Dispersion compensation module is required especially in fiber optical high bit rate (such as 10G or 40G bit/s) long-haul transmission systems. oWAVE15xx series is a device that being placed near the optical amplifier spaced some 25 to 50 miles apart to remove pulse distortion in an optical fiber network. A wide range of compensating distances is available to adjust the dispersion compensation to the specific link requirements. Greater reach and lower cost is achieved.

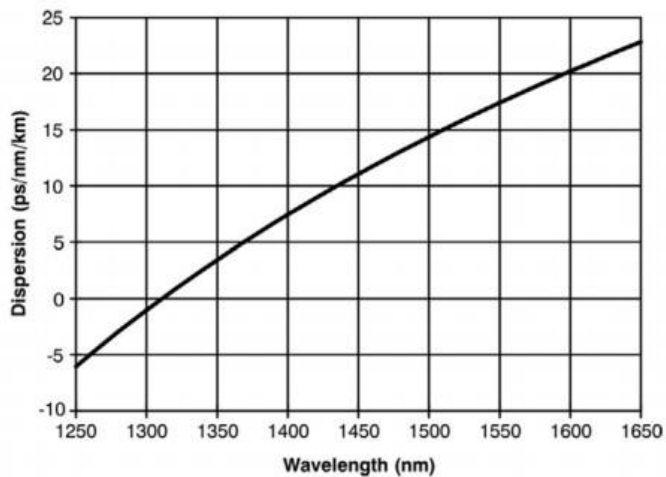


Figure 1: Dispersion Compensation for NDSF

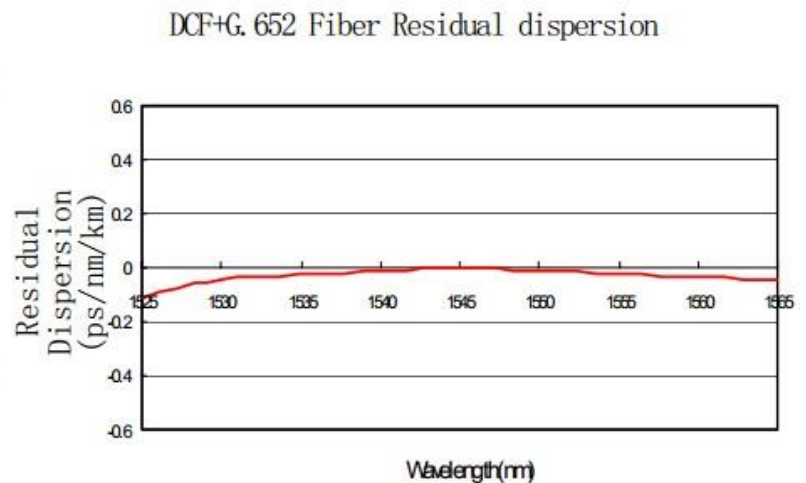


Figure 2: Residual Dispersion for typical link

## Technical Specification

DCM Type	oWAVE1520	oWAVE1540	oWAVE1560	oWAVE1580	oWAVE15100
Insert loss	~ 3.3	~ 4.8	~ 6.8	~ 8.7	~ 10.7
Dispersion @1545nm	-340 ±3%	-680 ±3%	-1020 ±3%	-1360 ±3%	-1700 ±3%
PDL* (dB)	~ 0.15	~ 0.15	~ 0.15	~ 0.15	~ 0.15
PMD` (ps)	~ 0.6	~ 0.8	~ 1.0	~ 1.2	~ 1.3
Compensation distance (km)	20	40	60	80	100
Fiber Type	Single Mode Fiber				
Connectors	SC				

\* Polarization Dependent Loss

` Polarization Mode Dispersion