

# 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.

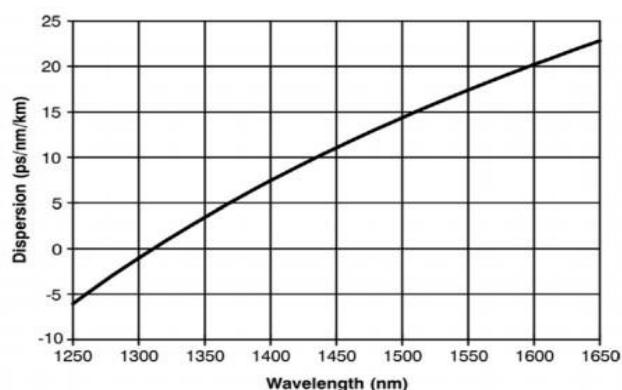


Figure 1: Dispersion Compensation for NDSF

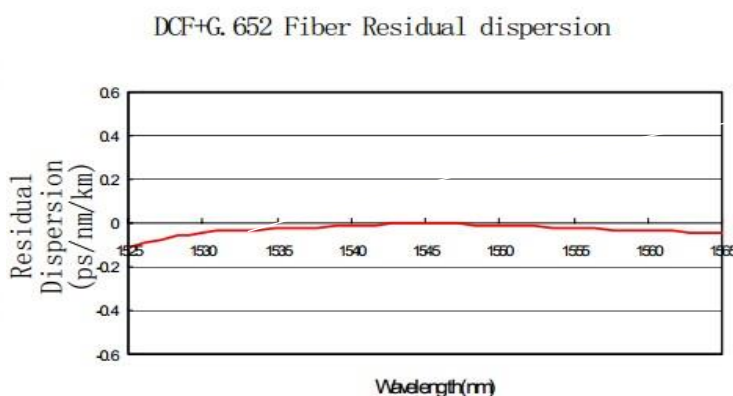


Figure 2: Residual Dispersion for typical link

## Technical Specification

DCM Type	oWAVE1520	oWAVE1540	oWAVE1560	oWAVE1580	oWAVE15100	oWAVE15120
Insert loss	<2.7	<4.1	<5.7	<6.9	<8.4	<8.8
Dispersion @1545nm	-330 ±5%	-670 ±5%	-1000 ±5%	-1340 ±5%	-1680 ±5%	-2010±5%
PDL* (dB)	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1
PMD* (ps)	≤ 0.7	≤ 0.8	≤ 1.0	≤ 1.2	≤ 1.3	≤ 1.4
Compensation distance (km)	20	40	60	80	100	120
Fiber Type	Single Mode Fiber					
Connectors	LC, SC, FC					

\* Polarization Dependent Loss

\* Polarization Mode Dispersion