20km Dispersion Compensation Fiber

Dispersion Compensation Module (DCM) is designed to fix the form of optical signals that are deformed by chromatic dispersion. The main constituent of DCM is DCF (Dispersion Compensation Fiber) with a negative chromatic dispersion value within the wavelength range between 1525nm and 1565nm. The module offers a high level of compensation while maintaining a low flat insertion loss as well as a low latency. When combined with EDFA and OEO, DCM provides a simple, reliable, and cost-effective long-haul transport solution, making signals go further without regeneration.
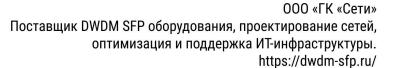
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Product Feature

• 100% slope compensation of G.652 fiber in C-band (Typical)

• Low insertion loss

• Low polarization mode dispersion

• Wide band dispersion compensation

• Compensation up to 40 km

• Completely passive—no powering utilized

• Telcordia GR-2854-CORE, ROHS compliant

Product Specification

Product Model	DCF20A
Equivalent G.652 compensation length	20km

1545nm wavelength dispersion(ps/nm)	-340±20
1545nm wavelength relative dispersion slope	0.004±20%(nm-1)
Insertion loss	≤3.6 dB
Polarization mode dispersion	≤0.6 ps
Nominal single-wave input optical power	≤0 dBm
Optical interface	All interfaces are LC type
Typical power consumption	0W (passive components)
MTBF	> 200000 hours
Occupied slot number	2 slots (dispersion compensation board over 40km need to be configured individually with the DCF passive frame)