

DCML – DISPERSION COMPENSATION MODULE

The ClearSpectrum™ - DCML is a fixed chromatic dispersion compensation module for high-speed DWDM networks.



This fixed chromatic dispersion compensation module offers high levels of compensation while maintaining an extremely low flat insertion loss as well as a low latency. The ClearSpectrum™ - DCML is the most efficient and reliable alternative to DCF (Dispersion Compensation Fiber) based on the fact that 50 GHz channel spacing and high compensation level are now contained in a 80% smaller footprint. This plug-and-play module is a perfect fit for those who wish to reduce amplification requirements in cost-sensitive networks.

Based on TeraXion's patented multi-channel Fiber Bragg Grating technology, the compensators exhibit high optical system performance which allow their use in high-speed DWDM networks.

Features

- Compensation up to 200 km
- Latency below 25 ns
- Small form factor
- Ultra low insertion loss
- 50 or 100 GHz channel grid
- Slope-matched to G.652 or G.655 fibers
- RoHS 6

Applications

- Metro and long-haul DWDM networks
- Low latency trading
- 10, 40 and 100 Gb/s ready
- Submarine networks
- Festoon networks
- RF communication systems
- Fiber emulation for test and measurement

Specifications¹

Compensation Level	20 to 100 km	20 to 200 km
Channel Spacing	100 GHz	50 and 100 GHz
Operation Bandwidth	> 60 GHz	> 25 GHz ²
Insertion Loss	≤ 3.0 dB	≤ 3.0 dB
Latency	< 25 ns	< 25 ns

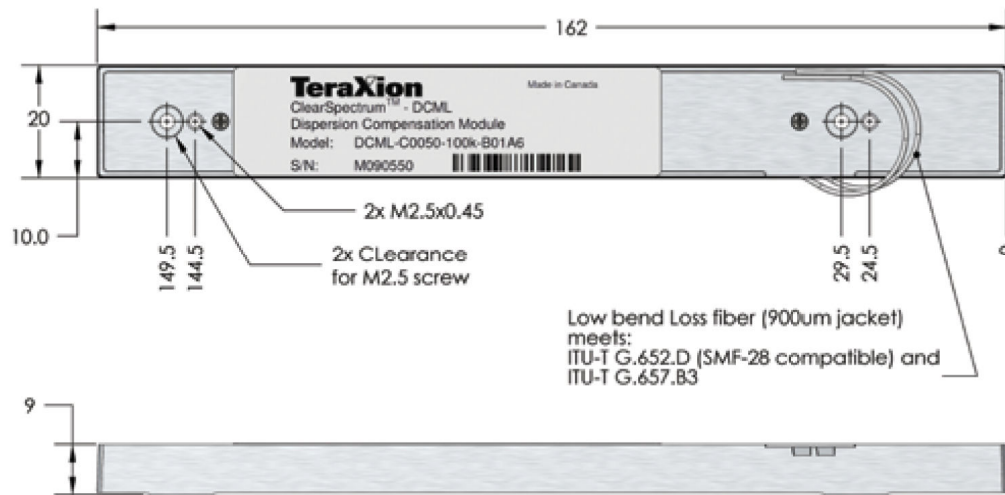
Other Specifications

Operating Temperature	-5 to 70°C
Storage temperature	-40 to 85°C

(1): Specifications can be customized.

(2): OBW ≥ 20 GHz for 200 km

Dimensions



Two off-the-shelf modules are presented below and custom packages are available upon request



DCML-LGX

10 to 200 km: 159 x 129 x 29 mm



DCML-1U

10 to 400 km: 198 x 47 x 20 mm

Ordering information

For orders, questions, specific requirements or to learn more about TeraXion's products, contact us at

info@teraxion.com