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Find the *TeraXion DCMX-Standard* at our website: *Click HERE*

ClearSpectrum™–DCMX

TeraXion

Dispersion Compensation Module Extended Reach



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

It is designed to offer a high compensation level while maintaining very low insertion loss in an ultra small package. The **ClearSpectrum™–DCMX** is an attractive alternative to dispersion compensating fiber (DCF) in cost-sensitive networks since its small footprint minimizes space and its low insertion loss reduces amplification requirements.

Based on TeraXion's patented multi-channel Fiber Bragg Grating technology, the compensators exhibit high optical system performance which allow their use in networks beyond 2000 km. The **ClearSpectrum™** product line is available as a mountable optical module (DCMX) or as a compact OEM (DCX) component.

Features

- Compensation up to 400 km
- Ultra low insertion loss
- Slope-matched to G.652 or G.655 fibers
- Low latency
- 100 or 50 GHz channel grid

Applications

- Metro and long-haul DWDM networks
- 40 Gb/s ready networks
- Submarine networks
- Festoon networks
- RF communication systems
- Fiber emulation for test and measurement

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ClearSpectrum™–DCMX Dispersion Compensation Module

Specifications

Compensation level	20 to 100 km	120 to 200 km	220 to 400 km
Channel spacing*	100 GHz	100 GHz	100 GHz
Operation BW**	> 40 GHz	> 30 GHz	> 30 GHz
Insertion loss	< 3.0 dB	< 3.0 dB	< 5.0 dB
Latency	< 50 ns	< 50 ns	< 50 ns

* 50 GHz channel spacing available ** > 60 GHz option available

Environmental Specifications

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

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



DCMX-Standard
10 to 100 km: 207 x 65 x 8.6 mm
120 to 400 km: 242 x 65 x 8.6 mm



DCMX-Compact
10 to 100 km: 200 x 25 x 9 mm
120 to 400 km: 235 x 25 x 9 mm



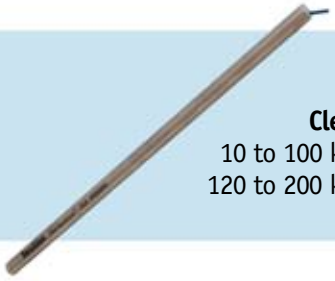
DCMX–LGX
10 to 200 km: 204 x 100 x 29 mm



DCMX–1U
10 to 200 km: 195 x 40 x 18 mm

OEM option

The ClearSpectrum™–DCX is an athermal FBG package available in two form factors. It is a reflective component that needs to be used with an optical circulator.



ClearSpectrum™–DCX
10 to 100 km: 190 x 6.3 ϕ mm
120 to 200 km: 225 x 6.3 ϕ mm

Ordering information

For orders, questions, specific requirements, or to learn more about **TeraXion** products, contact us at info@**teraxion.com**

Contact information

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TeraXion

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Printed in Canada
TERA032010-DCMX

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