# **Dispersion Compensation Module**



DATASHEET





### Features

- Low Insertion Loss
- 100% Slope Compensation
- Low PMD
- Pluggable Modules
- Wide Band
- High Reliability

#### **Applications**

- SDH High Speed Optical Transmission System
- DWDM Optical Network
- G.652 Fiber Long Distance and Metropolitan Area Communication System

DCM dispersion compensation module is a passive dispersion management element that can be inserted into an optical fiber network to control the overall chromatic dispersion.

It provides negative dispersion for high-speed metro core, regional, and longhaul DWDM transmission networks. DCM can be used to compensate dispersion on standard single-mode G.652 optical fiber across the entire Cband.

### **Specifications**

Parameter	Specification					Unit	
Working Wavelength	1525~1565					nm	
Compensation Distance	20	40	60	80	100	120	Km
Dispersion @ 1545nm <sup>[1]</sup>	-340	-680	-1020	-1360	-1670	-2040	ps/nm
Max Insertion Loss <sup>[2]</sup>	3.0	4.2	4.8	5.8	6.5	9.8	dB
PMD	0.3	0.4	0.5	0.6	0.8	1.2	ps
PDL	0.1	0.1	0.1	0.1	0.1	0.1	dB
Max Power Input	+ 23					dBm	
Working Temperature	-5 ~ 70					°C	
Storage Temperature	-40 ~ 85					°C	
Power Consumption	1					w	

[1]. Accuracy is  $\pm$  3%. [2]. without connector. Each connector adds 0.1dB (FC) ~ 0.3dB (LC).

**Note:** The specifications provided are for general applications with a cost-effective approach. If you need to narrow or expand the tolerance, coverage, limit, or qualifications, please [click this <u>link</u>]:

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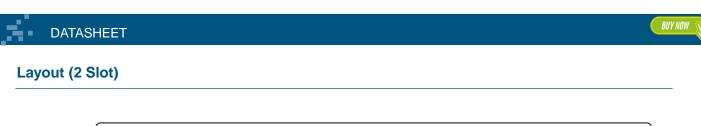
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© Photonwares Corporation	P +1 781-935-1200	E sales@photonwares.com	www.agiltron.com

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## **Dispersion Compensation Module**





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#### **Ordering Information**

Prefix	0	0	Compensation Distance	0	0	0	Connector Type
RDCM-			20 Km = 020 40 Km = 030 60 Km = 040 80 Km = 080 100 Km = 100 120 Km = 120 Special = 000				LC/PC = 1 LC/APC = 2 FC/PC = 3 FC/APC = 4 Special = 0

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