Tunable Chromatic Dispersion Compensation Module



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DATASHEET



This TDCM series of the module is designed to compensate chromatic dispersion for DWDM network systems by directly insert into the transmission and receiving fiber lines. It feature a good linearity. It is based on changing the etalon cavity spacing to effectively compensate for the dispersion problem of the signals in the DWDM optical communication system after long-distance transmission of the optical fiber. Especially for non-coherent system of single wave 25 ~ 40G, the method of adopting DCF and TDCM can solve the dispersion residual problem and ensure the performance of the system. TDCM can be used as an urgent adjustment role in 10G DWDM point to point applications when transmission distance is in 160km, total loss is less than 40dB and system capacity is 80G.

The device only compensates for the peaks within the ITU grids.

Features

- High Accuracy
- Large Range
- Low Cost
- Ease in Use
- Net Ready

Applications

- Laboratory Uses
- Testing
- Net Management

Specifications

Parameter	Min	Typical	Max	Unit
Wavelength Range	1528		1568	nm
Channel Spacing		100		GHz
Dispersion Slope Matching				
Compensation Length	0-60	0-80	0-100	km
Dispersion Tuning Range	± 400	± 1000	± 1400	ps/nm
Dispersion Setting Resolution	10			ps/nm
Tuning Stability	± 5			ps/nm
Tuning Time	25			second
Insertion Loss			6	dB
Polarization Dependent Loss			0.2	dB
Polarization Dispersion			1	ps
Interface	Serv	vice rack	pluggable	
Power Consumption			8	W
Operating Temperature	-10		50	°C
Storage Temperature	-45		85	°C
Humidity	5 - 95		(no condensation)	%

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P +1 781-935-1200 E sales@photonwares.com

www.agiltron.com

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Dimensions (mm)

159.7Wx220Dx20.6H

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Electrical/Computer Connection

SNMPv1, Monitor Online, Simple Management Tool

Ordering Information

						1	1	1	
Prefix	Channel Spacing	Wavelength	Fiber Type	Distance	Control box				Connector
TDCM-	100 = 10 Special = 00	1528-1568 = 1 Special = 0	G652 = 1 G655 = 2	0-60 km = 6 0-80 km = 8 0-100 km = 1 0-20 km = 2	Ethernet = 1 RS232 = 2 None = 3				LC/PC = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 Special = 0

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