100GHz 8 Channel Dense Wavelength Division Multiplexer

(patent pending)

Product Description

Agiltron's Wavelength Division Multiplexer (WDM) is based on thin film filter technology. This proven technology offers wide channel bandwidth, flexible channel configuration, low insertion loss, and high isolation. The DWDM series modules are used to add or drop a particular wavelength and are ideal for telecommunications and networking. Agiltron's DWDM modules are Bellcore GR -1221 qualification tested and are epoxy-free in the optical path.

Features

- 100 GHz Channel Spacing
- High Channel Isolation
- Low Insertion Loss
- Highly Stable & Reliable
- Epoxy-Free Optical Path
- Low Profile Packaging

Performance Specifications

Parameter		Mux	Demux
Channel Wavelength (nm)		ITU 100 GHz Grid	
Center Wavelength Accuracy (nm)		± 0.05	
Minimum Channel Spacing (GHz)		100(0.8nm)	
Channel Passband (@-0.5dB bandwidth) (nm)		≥0.22	
Insertion Loss (dB)		≤ 3.2	
Channel Uniformity (dB)		≤ 1.0	
Channel Ripple (dB)		≤ 0.3	
Isolation @Add/Drop Channel (dB)	Adjacent	N/A	≥ 25
	Non-adjacent	N/A	≥ 35
Insertion Loss Temperature Sensitivity (dB/° C)		≤ 0.003	
Wavelength Temperature Shifting (nm/ ° C)		≤ 0.002	
Polarization Dependent Loss (dB)		≤ 0.10	
Polarization Mode Dispersion (ps)		≤ 0.1	
Directivity (dB)		≥ 50	
Return Loss (dB)		≥ 45	
Power Handling (mW)		300	
Operating Temperature (° C)		0 ~ +70	
Storage Temperature (° C)		-40 ~ +85	
Dimensions (mm)		L110 x W95 x H7.5	

Applications

- Add/Drop Channels
- Dense WDM Systems
- CATV Fiberoptic Links

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www.agiltron.com

Revision: 070-02
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Ordering Information

DWDM-	1	☐ ☐	☐	☐ ☐ ☐	☐	☐	☐
	Ch. Spacing	Number of Channels	Configuration	1st ITU Channel Number	Pigtail Style	Fiber Length	Connector
	100G=1	8 Channel=08	Mux=M Demux=D	Refer ITU Channel Table For example, 1560.61nm=C21 1588.98nm=C23	Bare Fiber=1 900um Jacket=2 Special=0	0.25M=1 0.5M=2 1.0M=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0

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