

100GHz Single 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 devices are used to add or drop a particular wavelength and are ideal for telecommunications and networking. Agiltron's DWDM devices are Bellcore GR -1221 qualification tested and 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)	1530.33 - 1560.61 (21- 59 ITU grid)	
Center Wavelength Accuracy (nm)	± 0.05	
Minimum Channel Spacing (GHz)	100	
Channel Passband (@-0.5dB bandwidth) (nm)	≥ 0.22	
Insertion Loss (dB)	Add / Drop Ch.	≤ 1.0
	Express Ch.	≤ 0.4
Add / Drop Channel Ripple (dB)	≤ 0.3	
Isolation @Add/Drop Channel (dB)	Adjacent	N/A
	Non-adjacent	N/A
Express Channel Isolation (dB)	≥ 10	
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	
Package Dimension (mm)	Ø5.5 x L34(L38 for 900um Jacket)	

Applications

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

Revision: 070-02
05-24-11

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Ordering Information

DWDM-	Ch. Spacing	Number of Channels	1st ITU Channel Number	Pigtail Style	Fiber Length	Connector
1	100G=1	1 Channel=01	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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