PHOTONWARES

Single Channel Coarse 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 CWDM series devices are used to add or drop a particular wavelength and are ideal for telecommunications and networking. Agiltron's CWDM devices are Bellcore GR -1221 qualification tested and are epoxy-free in the optical path.

Features

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

Applications

- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical Amplifier
- Access Network

Performance Specifications

Parameter		Mux	Demux
Operating Wavelength (nm)		1470 to 1610	
Center Wavelength Accuracy (nm)		$\pm$ 0.5	
Channel Spacing (GHz)		20	
Channel Passband (@-0.5dB bandwidth)(nm)		$\geq$13	
Pass Channel Insertion Loss (dB)		$\leq$ 0.6	
Reflection Channel Insertion Loss (dB)		$\leq$ 0.4	
Channel Ripple (dB)		$\leq$ 0.3	
Isolation (dB)	Adjacent	N/A	$\geq$30
	Non-adjacent	N/A	$\geq$40
Insertion Loss Temperature Sensitivity (dB/$^\circ$C)		$\leq$ 0.003	
Wavelength Temperature Shifting (nm/$^\circ$C)		$\leq$ 0.002	
Polarization Dependent Loss (dB)		$\leq$ 0.1	
Polarization Mode Dispersion (ps)		$\leq$ 0.1	
Directivity (dB)		$\geq$ 50	
Return Loss (dB)		$\geq$ 45	
Power Handling (mW)		300	
Operating Temperature ($^\circ$C)		0 ~ +70	
Storage Temperature ($^\circ$C)		-40 ~ +85	
Dimensions (mm)		5.5xL34(L38 for 900um jacket)	

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Ordering Information

CWDM-	C									
	Ch. Spacing	**Number of channels**		**Configuration**	**ITU Channel**			**Pigtail Style**	**Fiber Length**	**Connector**
	CWDM Grid=C	1 Channel=01		Mux=M Demux=D	1510nm=510 1551nm=551 1571nm=571			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

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