



# 1X2 Coarse Wavelength Division Multiplexer

AC Photonics' Coarse Wavelength Division Multiplexer (CWDM) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging. It provides low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path. All AC Photonics' products are Telcordia qualification tested.



## Features

- Low Insertion Loss
- Wide Pass Band
- High Channel Isolation
- High Stability and Reliability
- Epoxy Free Optical Path

## Applications

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

## Performance Specifications

Parameter	MUX	DEMUX
Operating Wavelength (nm)	Full Band: 1270 to 1610 Standard Band: 1270 ~ 1350 or 1430 ~ 1610	
Center Wavelength (nm)	1270, 1290.....1610 or 1271, 1291.....1611	
Center Wavelength Accuracy (nm)	±0.5	
Channel Spacing (nm)	20	
Channel Passband (@-0.5dB bandwidth) Min.(nm)	≥13	
Pass Channel Insertion Loss (dB)	≤ 0.6	
Reflection Channel Insertion Loss (dB)	≤ 0.4	
Channel Ripple (dB)	≤ 0.3	
Isolation (dB)	Adjacent	N/A
	Non-adjacent	N/A
Insertion Loss Temperature Sensitivity (dB/°C)	≤0.003	
Wavelength Temperature Shifting (nm/°C)	≤0.002	
PDL (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 ~ +80	
Dimensions (mm)	Φ5.5 x L34(L38*)	

\* L38 for 900um Jacket.



## Ordering Information

CWDM	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	Channel Spacing	Number of Channel	Configuration	ITU Channel	Pigtail Style	Fiber Length	In/Out Connector	FB
	C=CWDM Grid	01=1Channel	M=Mux D=Demux	510=1510nm 511=1511nm 551=1551nm 571=1571nm	1=BareFiber 2=900umJacket	1=1m 2=2m	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC/UPC 7=LC/APC	FB=Full Band Leave Empty =Standard

## Dimensions

