



# CWDM 1 Channel Optical Add/Drop 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
- CWDM Grid

## Applications

- CWDM Channel Add/Drop
- Metro/Access Networks
- CATV Fiberoptic System

## Performance Specifications

Parameter	Add	Drop
Channel 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) (nm)	≥13	
Insertion Loss (dB)	Add / Drop Ch.	≤ 0.6
	Express Ch.	≤ 0.6
Add / Drop Channel Ripple (dB)	≤ 0.3	
Isolation @Add/Drop Channel (dB)	Adjacent	N/A
	Non-adjacent	N/A
Express Channel Isolation (dB)	≥ 25	
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) (Input to add, Output to drop, add to drop)	≥50	
Return Loss (dB)	≥45	
Power Handling (mW)	300	
Operating Temperature (°C )	0 ~+70	
Storage Temperature (°C )	-40 ~+85	
Dimensions (mm)	L80 x W50x H7.5	

## Ordering Information

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	Channel Spacing	Number of Channel	1st ITU Channel	Pigtail Style	Fiber Length	In/Out Connector	FB
	C=CWDM Grid	01=1 Channel	470=1470nm 471=1471nm 491=1491nm	1=Bare Fiber 2=900um Jacket 3=3mm Cable	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

