



# Coarse Wavelength Division Multiplexer (1x2)

ACP's 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.

## PERFORMANCE SPECIFICATIONS

Parameter	Mux/Demux
Operating Wavelength (Full band (FB))	1270 ~ 1610 nm
Operating Wavelength (Standard)	1270 ~ 1350nm or 1430 ~ 1610nm
Center Wavelength (CWL)	1270, 1290, .....1610nm or 1271, 1291, .....1611nm
Center Wavelength (CWL) Accuracy	±0.50nm
Channel Spacing	20nm
Channel Passband (@-0.5dB bandwidth)	≥ 13nm
Insertion Loss	≤ 0.60dB (Pass Ch.)
	≤ 0.40dB (Reflected Ch.)
Channel Ripple	≤ 0.40dB
Channel Isolation (Demux only)	≥ 30dB (Adjacent)
	≥ 40dB (Non-adjacent)
Express Channel Isolation	≥ 15dB
Insertion Loss Temperature Sensitivity	≤ 0.003dB/°C
Wavelength Temperature Shifting	≤ 0.002nm/°C
Polarization Dependent Loss	≤ 0.10dB
Polarization Mode Dispersion	≤ 0.10ps
Directivity	≥ 50dB
Return Loss	≥ 45dB
Optical Power	≤ 300mW
Operating Temperature	0 to +70°C (Extended temperatures are also available upon request)
Storage Temperature	- 40 to +85°C
	A= Standard, Φ5.5xL34 (250um bare fiber) Φ5.5xL38 (900um jacket fiber)
Package Dimensions (mm)	M=Compact, Φ4.8xL30 (250um bare fiber)
	N=Mini, Φ4.2xL28 (250um bare fiber)
	C=98x14x8.5 (2&3 mm fiber jacket)
	S=89x51x8.0 (2&3 mm fiber jacket)

All values referenced are without connector.

## FEATURES

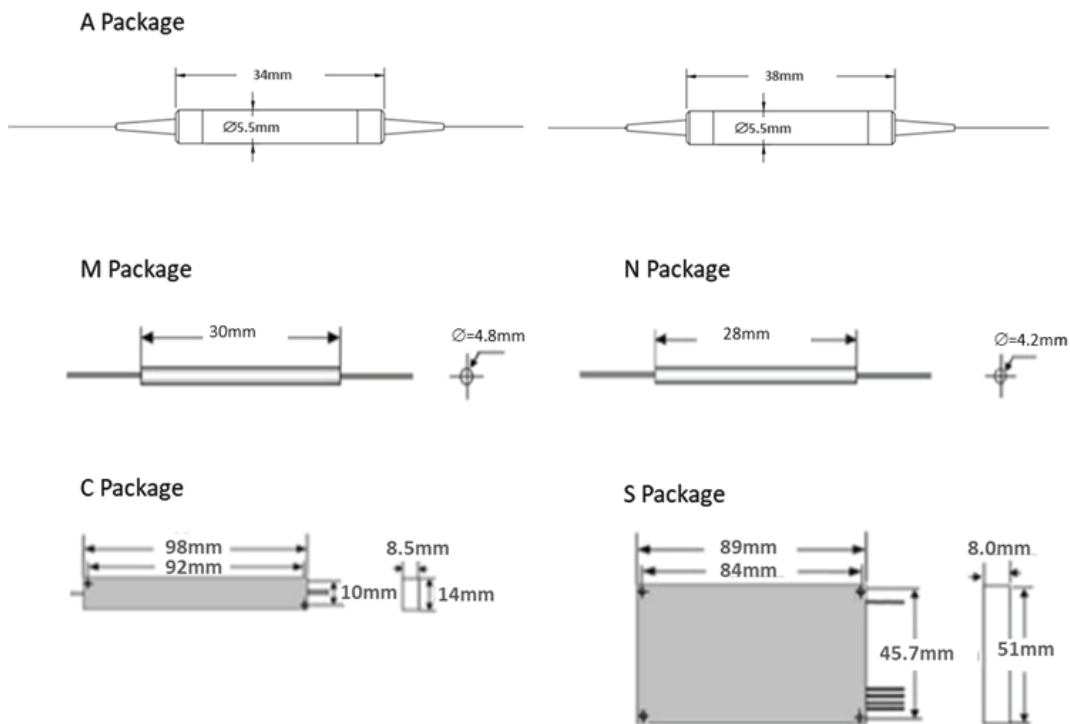
- Low Insertion Loss
- Wide Pass Band
- High Channel Isolation
- High Stability and Reliability
- Epoxy Free Optical Path

## APPLICATION

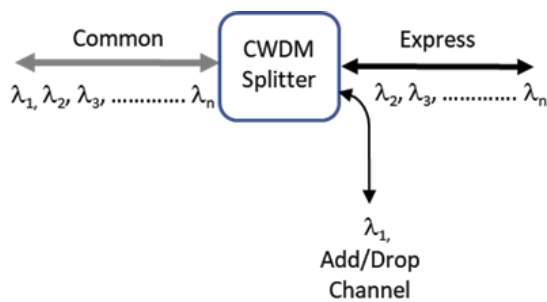
- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical Amplifier
- Access Network

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## MECHANICAL DIMENSIONS



## CHANNEL CONFIGURATIONS



## Coarse Wavelength Division Multiplexer (1x2)

### ORDERING INFORMATION

CWDM	Channel Spacing*	Port	1st Channel Wavelength	Package	Fiber Type**	Fiber Length***	Pigtail Style	Connector	Option
	1=10nm	102= 1x2	270= 1270 nm	A=A package	2=SMF-28 Ultra (G.657.A1)	05=0.5m	1=Bare fiber	0 = None	None= Standard
	2=20nm		271=1271 nm	M= M package		10=1.0m	2=900um loose tube	1 = FC/APC	FB=Full band
	4=4nm		•	N= N package	3=ClearCurve ZBL(G.657.B3)	•	3=3mm jacket	2 = FC/PC	
			•	C= C package		•	4=2mm jacket	3 = SC/APC	
			•	S= S package		•	5=1.6mm jacket	4 = SC/PC	
			610 = 1610nm			•		5 = ST	
			611 = 1611nm			20=2.0m		6 = LC/UPC	
								7 = LC/APC	

\*custom order for 10nm and 4nm channel spacing.

\*\*1=SMF-28(G.652) is available upon request.

\*\*\*Other length is available upon request, However, 900µm loose tube is only up to 2m.