

CWDM 1 & 2 channel OADM

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	Specifications	
	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	±0.5nm	
Channel Spacing	20nm	
Channel Passband (@-0.5dB bandwidth)	≥ 13nm	
Number of Channel	Ch 1	Ch 2
Insertion Loss (Add / Drop Ch. 1)	≤ 0.6dB	≤ 0.9dB
Insertion Loss (Express Ch.)	≤ 0.6dB	≤ 1.2dB
Channel Isolation (Demux only)	≥ 30dB (Adjacent) ≥ 40dB (Non-adjacent)	
Add / Drop Channel Ripple	≤ 0.3dB	
Express Channel Isolation	≥ 25dB	
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	
Package Dimensions (LxWxH)	S=89x51x8.0mm	

All values referenced are without connector.

FEATURES

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

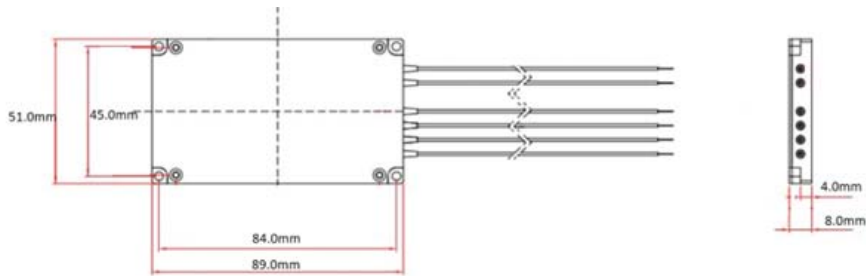
APPLICATION

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

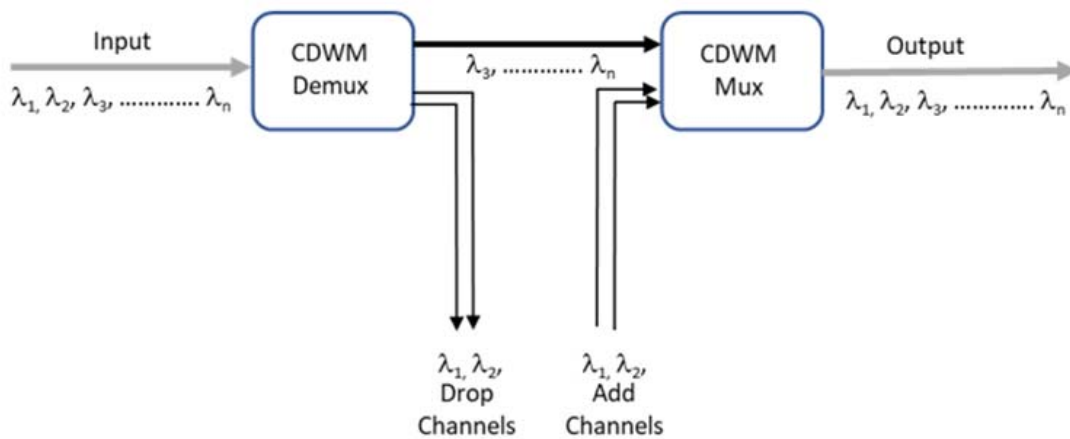
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MECHANICAL DIMENSIONS

S package:



CHANNEL CONFIGURATIONS



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ORDERING INFORMATION

CWDM	Channel Spacing*	Port	1st Channel Wavelength	Package	Fiber Type	Fiber Length***	Pigtail Style	Connector	Option
	1=10nm	0202=1Ch Add/Drop	270= 1270 nm	S= S package	2=SMF-28 Ultra (G.657.A1)	05=0.5m	1=Bare fiber	0 = None	None= Standard
	2=20nm	0303=2Ch Add/Drop	271=1271 nm			10=1.0m	2=900um loose tube	1 = FC/APC	FB=Full band
	4=4nm		.		3=ClearCurve ZBL(G.657.B3)	.	3=3mm jacket	2 = FC/PC	
			.			.	4=2mm jacket	3 = SC/APC	
			610 = 1610nm			.	5=1.6mm jacket	4 = SC/PC	
			611 = 1611nm			20=2.0m		5 = ST	
								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.

RELATED PRODUCTS

[CWDM_Standard Package CWDM](#)

[PM CWDM 1x2](#)