

Features

- Low insertion loss
- High channel isolation
- Low polarization dependent loss
- Exceptional reliability and stability



Applications

- Access networks
- Metro WDM systems
- Enterprise networks

Product Description

Primanex's Coarse Wavelength Division Multiplexers (CWDMs) demonstrate low loss and reliable performance. These devices show broad passband and high isolation, making them ideal for operation with inexpensive, uncooled lasers, thereby enabling high capacity, low cost products for the CATV and metro/access markets.

Easily customizable, Primanex CWDMs can be configured from a standard list of packaging and connector options.

Specifications

Item	Unit	Parameters		Notes
Channel Spacing		20 nm ITU grids		
Wavelength Range	nm	1460 to 1620	1260 to 1620	
Channel Centers (ITU or ITU+1)	nm	1470/1490...1610 or 1471/1491...1611	1270/1290...1610 or 1271/1291...1611	
Passband	nm	≥ +/- 7		
Passband Ripple	dB	≤ 0.3		
Add/Drop Insertion Loss (single-λ)	dB	≤ 1.0 dB		
Add/Drop Insertion Loss (dual-λ)	dB	≤ 1.8dB		
Express Insertion Loss (single-λ)	dB	≤ 0.8 dB		
Express Insertion Loss (dual-λ)	dB	≤ 1.3 dB		
Drop Isolation (adj channel)	dB	≥ 30 dB		
Drop Isolation (non-adj channel)	dB	≥ 50 dB		
Express Isolation	dB	≥ 25 dB		
Polarization Dependent Loss	dB	≤ 0.2 dB		
Polarization Mode Dispersion	ps	≤ 0.2 ps		
Directivity	dB	≥ 50 dB		
Return Loss	dB	≥ 45 dB		
Optical Power Handling	mW	≤ 500		
Operating Temperature Range	°C	-5 to 70		
Storage Temperature Range	°C	-40 to +85		
Fiber Type	NA	SMF-28e+		
Package Dimension	mm	100×80×10		ABS

*. All the specifications are based on the devices without connector, and guaranteed over wavelength, polarization and temperature.

** Specifications are subject to change without notice.

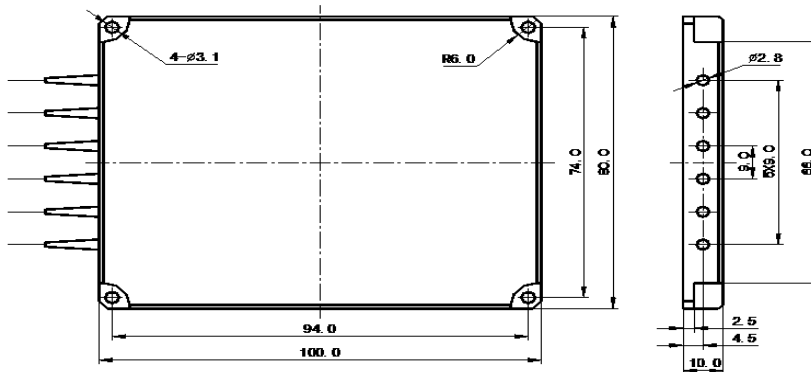


Single/Dual-Channel Add/Drop Module

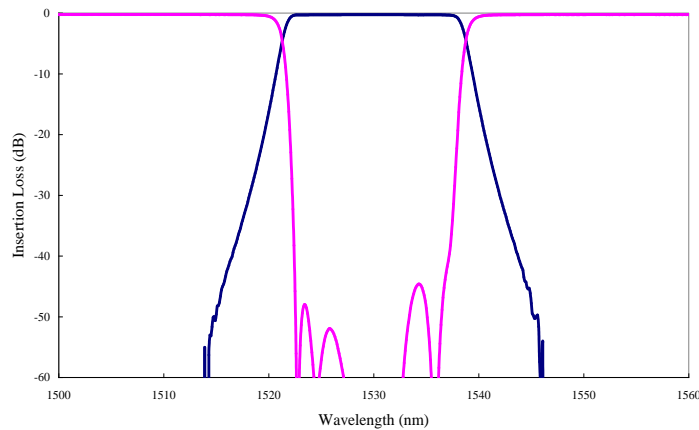
CWDM 20nm Spacing

Photonics Beyond Boundary

Dimensions Drawing (mm)



Spectral Plot (dB)



Ordering Information (Sample:ADMC-0F53010120)

Code Channel Plan	Channel Frequency	Code Channel Number	Fiber Length	Connector Type
0. ITU	Provided by Primanex upon customer confirmation	101. Single Channel	1. 0.5 +/- 0.1 m	0. No Connector
1. ITU+1		202. Dual Channel	2. 1.0 +/- 0.1 m	1. FC/UPC
		909. Custom	3. Others	2. FC/APC
				3. SC/UPC
				4. SC/APC
				5. Others

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