

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 Multiplexer (CWDM) devices demonstrate low loss and reliable performances.

These devices show broad passband and high isolation, making them ideal for operation with inexpensive, uncooled lasers. They are 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

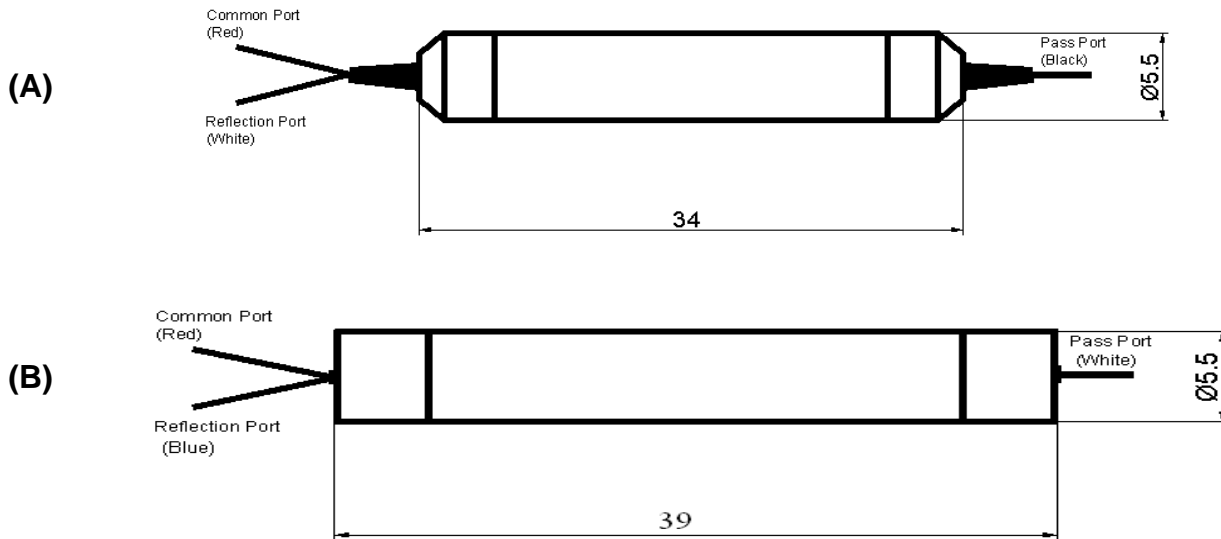
Item	Unit	Parameters		Notes
Channel Spacing		20 nm ITU grids		
Wavelength Range	nm	1460 to 1620 or 1260 to 1460	1260 to 1620	Select half-band or all-band
Channel Centers (ITU or ITU+1)	nm	1270/1290...1610 or 1271/1291...1611		
Passband	nm	≥ +/- 7		
Passband Ripple	dB	≤ 0.30		
Transmission Insertion Loss	dB	≤ 0.60		
Reflection Band Ripple	dB	≤ 0.20	≤ 0.30	
Reflection Insertion Loss	dB	≤ 0.40	≤ 0.55	
Transmission Isolation (adj channel)	dB	≥ 30		
Transmission Isolation (non-adjchannel)	dB	≥ 50		
Reflection Isolation	dB	≥ 14		High isolation(28 dB)is optional
Polarization Dependent Loss	dB	≤ 0.1		
Polarization Mode Dispersion	ps	≤ 0.2		
Thermal Stability	dB/°C	≤ 0.005		
Directivity	dB	≥ 50		
Return Loss	dB	≥ 45		
Optical Power Handling	mW	≤ 500		
Tensile Load	N	≥ 5		
Operating Temperature Range	°C	-5 to 70		
Storage Temperature Range	°C	-40 to +85		
Fiber Type		SMF-28e+		Other fiber type is optional
Package Dimension	mm	Φ5.5 x 34 (A)		250μm bare fiber
	mm	Φ5.5 x 39 (B)		900μm loose tube

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

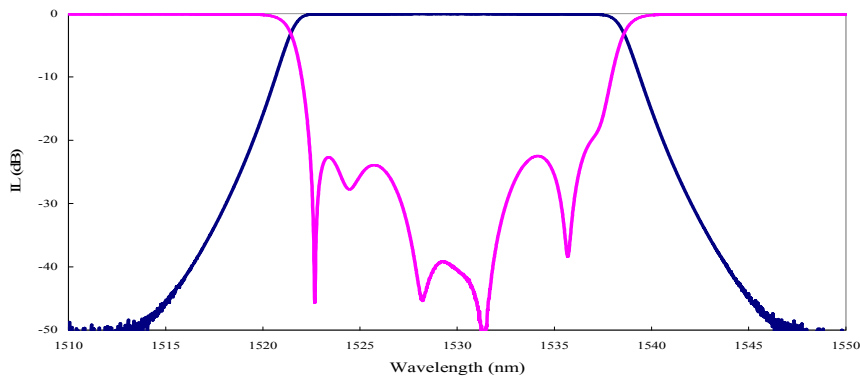
** PMD and chromatic dispersion values are guaranteed by design.

*** Specifications are subject to change without notice

Dimensions Drawing(mm)



Spectral Plot (dB)



Ordering Information(Example: CWMS-0F5103S120)

CWMS -	<input type="checkbox"/>	F	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Channel Plan		Channel Frequency Code			Fiber Type		Fiber Length		Connector Type
	0. ITU		Provided by Primanex upon customer confirmation			1. 250um Fiber		1. 0.5 +/-0.1 m		0. No Connector
	1. ITU+1					2. 900um Fiber		2. 1.0 +/-0.1 m		1. FC/UPC
						3. Others		3. Others		2. FC/APC
										3. SC/UPC
										4. SC/APC
										5. Others

All statements, technical information and recommendations related to the products herein are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. The user assumes all risks and liability whatsoever in connection with the use of a product or its application. Primanex reserves the right to change at any time without notices the design, specifications, function, fit or form of its products described herein, including withdrawal at any time of a product offered for sale herein. Primanex makes no representations that the products herein are free from any intellectual property claims of others. Please contact Primanex for more information. Primanex and the Primanex logo are trademarks of Primanex Corporation. Other trademarks are the property of their respective holders.