

CWDM Products specification

Description

Coarse wavelength division multiplexer (CWDM Mux/Demux) utilizes 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.

The CWDM products include: bare single CWDM device packed in glass tube or stainless steel tube, CWDM Mux Demux modules packed in ABS box up to 16-channel or even 18-channel Multiplexing on a single fiber or CWDM modules packed in standard 19" 1U rackmount. Due to the low insertion loss is needed in WDM networks, we can also add "Skip Component" in a CWDM Mux/Demux module to reduce the IL as an option. Standard CWDM Mux/Demux package type include: Glass tube, stainless steel tube, ABS box package, LGX package and 19" 1U rackmount.

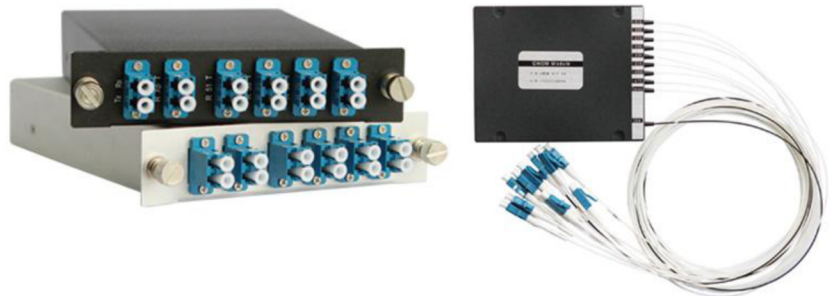
Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path



Applications

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



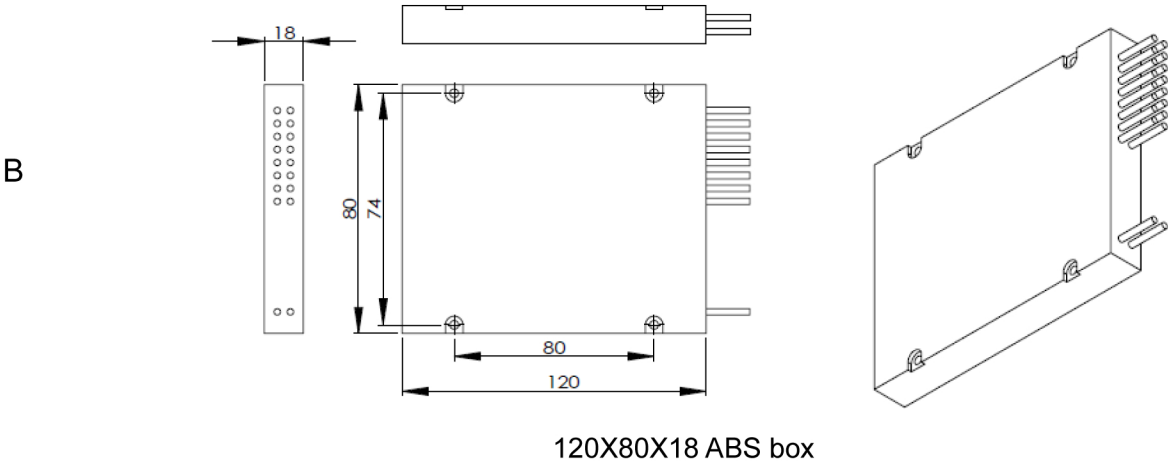
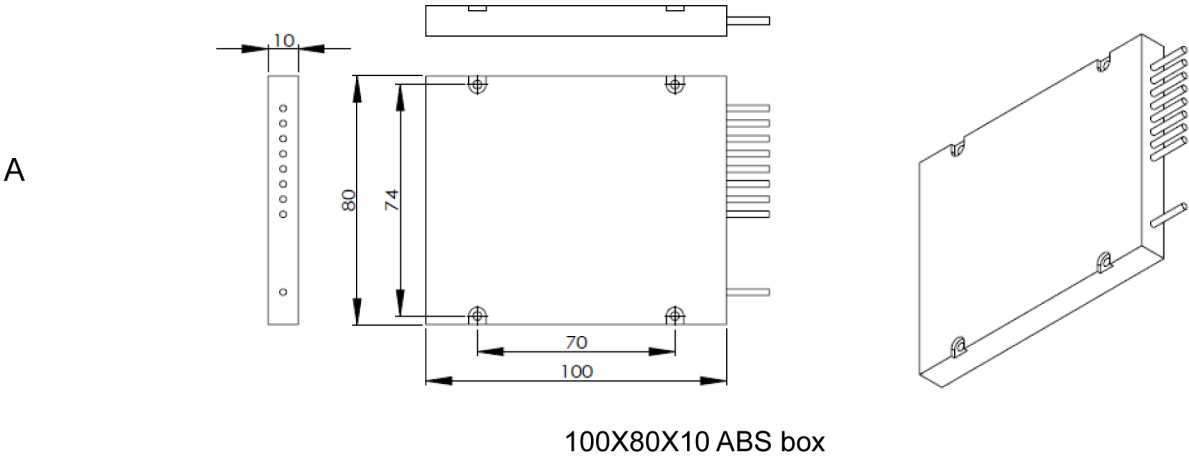
Performance Specifications

Parameter		4 Channel		8 Channel		18 Channel	
		Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength (nm)		1270~1610/1271~1611					
Center wavelength Accuracy (nm)		±0.5					
Channel Spacing (nm)		20					
Channel Passband (@-0.5dB bandwidth (nm)		+/-7.5 / +/-6.5					
Insertion Loss (dB)		≤1.5		≤2.5		≤5.0 With Skip filter 3.6dB	
Channel Ripple (dB)		0.3					
Isolation (dB)	Adjacent	>30					
	Non-adjacent	>40					
Isolation (dB)	Express with filter	>30					
	Express without filter	>15					
Inertion Loss Temperature Sensitivity (dB/℃)		<0.005					
Wavelength Temperature Shifting (nm/℃)		<0.002					
Polarization Dependent Loss (dB)		<0.1					
Polarization Mode Dispersion		<0.1					

Directivity (dB)	>50	
Return Loss(dB)	>45	
Maximum Power Handling (mW)	300	
Operating Temperature (°C)	-5~+75	
Storage Temperature (°C)	-40~+85	
Package dimension (mm) (Glass tube)	Ø4.2*25	
Package dimension (mm) (Steel tube)	Ø5.5*34	
Package dimension (mm) (ABS box)	A: L100 x W80 x H10	B: L120 x W80 x H18
Package dimension (mm) (LGX box)	C: L129 x W29 x H155.5 or customized	
Package dimension (mm) (19" 1U Rackmount)	D: L440 x H44 x D200	

Specification may change without notice.
 Above specification are for device without connectors.

ABS box Dimension:



Package box dimension:

1. Package for size A: 100x80x10mm ABS box for less than 10 channle CWDM and 120x80x18mm ABS, Mux+Demux 2pcs module packed together. Flyin lable on top left corner: 50*30mm with detailed product information and date.



2. Package for 19" 1U rack mount: 440 x 44 x 200mm rackmount, 1pc rackmount packed inside.
Flyin lable on top left corner: 50*30mm with detailed product information and date.

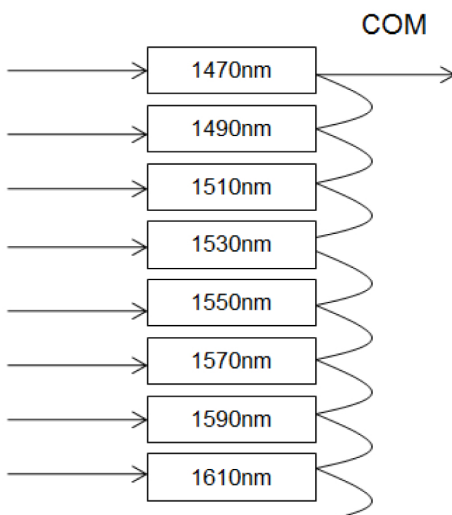


Note: Package may change without notice, Flyin reserve all rights.

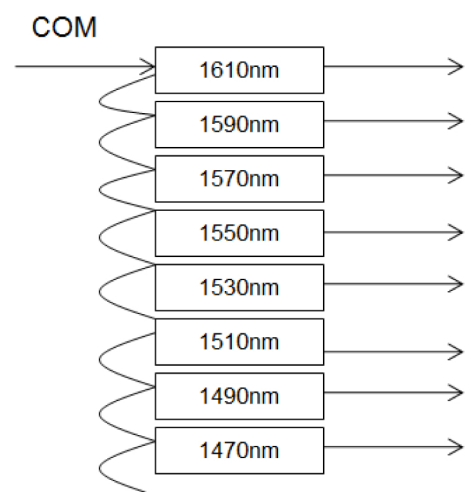
Inner Device Drawing:

8CH CWDM MUX/DEMUX

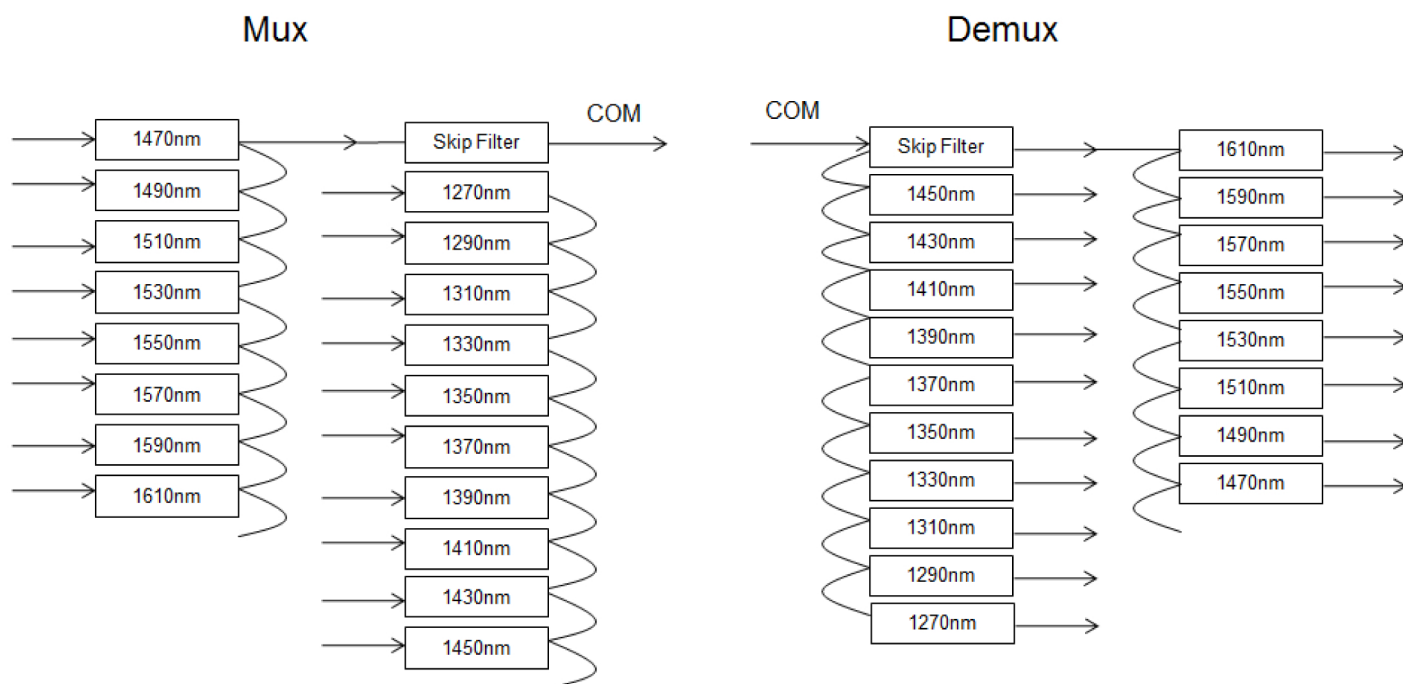
Mux



Demux



18CH MUX/DEMUX With Skip Filter



Ordering Information

CWDM	X	XX	X	XX	X	X	XX
	Channel Spacing	Number of Channels	Configuration	1st Channel	Fiber Type	Fiber Length	In/Out Connector
	C=CWDM Grid	04=4 Channel 08=8 Channel 16=16 Channel 18=18 Channel N=N Channel	M=Mux D=Demux O=OADM	27=1270nm 47=1470nm 49=1490nm 61=1610nm SS=special	1=Bare fiber 2=900um Loose tube 3=2mm Cable 4=3mm Cable	1=1m 2=2m S=Specify	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC S=Specify

版本记录/Revision History

Revision	Notes	Authors	Checked	Approval	Date
Rev A0	首次制定/New release	Jerry Lee	John Liu	John Liu	2014.06.10
Rev A1	Revise the package size.	Eric Wang	Jerry Lee	John Liu	2016.05.12
Rev A2	Revise inner device drawing	Eric Wang	Jerry Lee	Justin Yang	2018.09.29