

## CWDM Module

### Product Description

SHARETOP'S Coarse Wavelength Division Multiplexer (CWDM) devices demonstrate low loss and reliable performances. It can not only increase efficiency, but also reduce costs

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, SHARETOP'S CWDM can be configured from a standard list of packaging and connector options.

### Features

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

### Applications

- Access networks
- Metro WDM Systems
- Enterprise networks



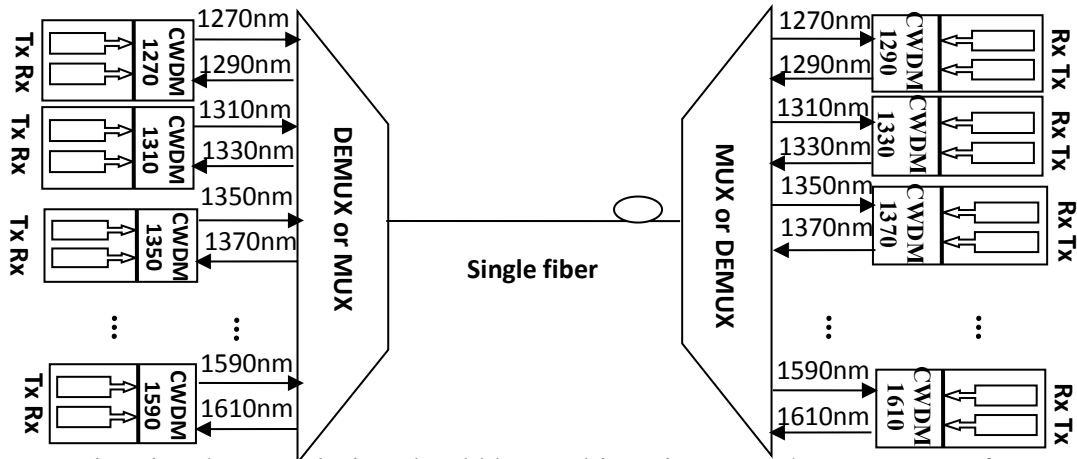
### Specification

Parameter	4 Channel		8 Channel		16 Channel		
	Mux	Demux	Mux	Demux	Mux	Demux	
Channel Wavelength (nm)	1270~1610						
Center wavelength Accuracy (nm)	±0.5						
Channel Spacing (nm)	20						
Channel Passband (@-0.5dB bandwidth (nm))	>13						
Insertion Loss (dB)	≤1.6		≤2.5		≤4.5		
Channel Uniformity (dB)	≤0.6		≤1.0		≤1.5		
Channel Ripple (dB)	0.3						
Isolation (dB)	Adjacent	N/A	>30	N/A	>30	N/A	>30
	Non-adjacent	N/A	>40	N/A	>40	N/A	>40
Inertion Loss Temperature Sensitivity (dB/°C)	<0.005						
Wavelength Temperature Shifting (nm/°C)	<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						

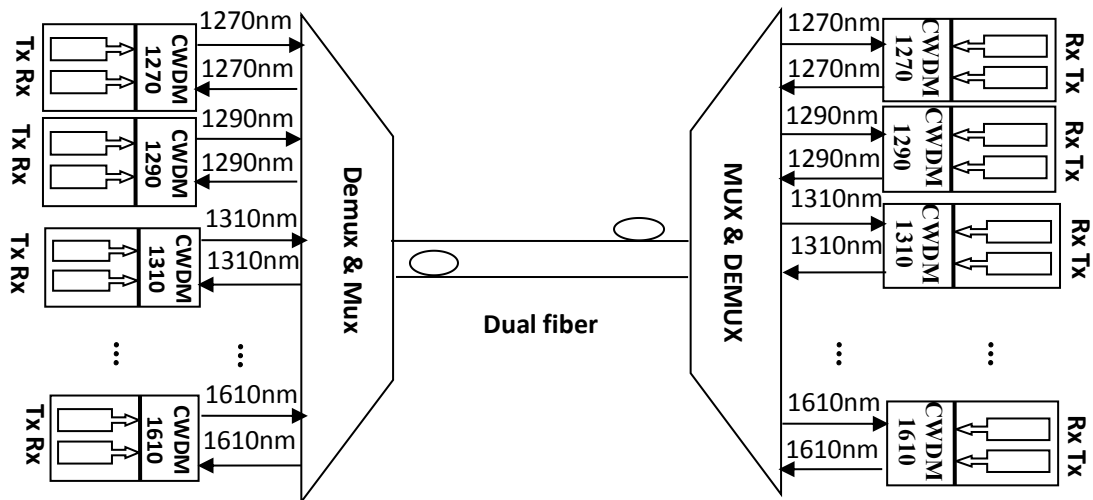
Package dimension (mm)	L100 x W80 x H10 (2CH-8CH)
	L142 x W102 x H14.5 (9CH-18CH)

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

### WDM Application Framework



Simplex BI-Directional Transmission should be used in Pairs, MUX/DEMUX port for specific wavelength must be opposite.



### Ordering information (CWDM-04-M-27-1-1-0)

Product	Number of Channels	Configuration	wavelength	Fiber Type	Fiber Length	Connector
CWDM	04=4 Channel	M=Mux	27=1270nm	1=Bare fiber	1=1m	0=None
	08=8 Channel	D=Demux	47=1470nm	2=0.9mm	2=2m	1=FC/APC
	16=16 Channel	O=MUX&	49=1490nm	3=2mm	S=Specify	2=FC/PC
	18=18 Channel	DEMUX	.....	4=3mm		3=SC/APC
	N=N Channel			61=1610nm	Cable	
			SS=special			5=LC