

## Coarse Wavelength Division Multiplexer Module (CWDM)

**Features:**

Low insertion loss  
 High channel isolation  
 High stability and reliability

**Application:**

CWDM system  
 Metro/Access Networks  
 CATV Fiber optic System

**Specifications:**

Parameter		Value			
Channel number		4	8	16	18
Central Wavelength(nm)		ITU Grid Channel:1271, 1291, 1311, ...1551, 1571, 1591, 1611 1270, 1290, 1310, ...1550, 1570, 1590, 1610			
Operating Wavelength Range (nm)		S:1260~1460 or H:1460~1620 or A: 1260~1620			
Channel space (nm)		20			
Channel bandwidth (nm)		$\lambda_c \pm 6.5$			
Channel flatness (dB)		$\leq 0.4$			
Insertion Loss (dB)		$\leq 1.8$	$\leq 3.0$	$\leq 4.2$	$\leq 4.5$
Isolation (dB)	Adjacent channel	$\geq 30$			
	Non-adjacent channel	$\geq 40$			
	express	$\geq 15$			
Directivity (dB)		$\geq 55$			
Return loss (dB)		$\geq 50$			
PDL (dB)		$\leq 0.15$		$\leq 0.20$	
Wavelength thermal stability (nm/°C)		$\leq 0.003$			
Insertion loss thermal stability (dB/°C)		$\leq 0.005$			
Power handling (mW)		$\leq 500$			
Fiber Type		SMF-28e/SMF-28e XB			
Operating temperature (°C)		0 ~ +70			
Storage temperature (°C)		-40 ~ +85			
Dimensions (L*W*H) (mm)		100*80*10 (P1); 120*80*18(P2); 60*60*10 (P3)			

\*Above specifications are for devices without the connectors.

\*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower

\*MUX cascading sequence: 1610(Min IL), 1590, 1570, ....., 1350, 1330, 1310, 1290, 1270+Exp.

\*De-MUX cascading sequence: 1270(Min IL), 1290, 1310, ....., 1530, 1550, 1570, 1590, 1610+ Exp;

**Ordering Information:**

CW DM	Port Type	Type	Express Port	Shortest Channel Wavelength	Operating Wavelength Range	Package Type	Pigtail Type	Length	Connector
	04=1*4 08=1*8 16=1*16 18=1*18	D=Demux M=Mux	0=without express 1=with express	XX=Shortest channel Wavelength( Refer to ITU Grid channel) 27=1271nm	S=1260~1460 nm H=1460~1620 nm A=1260-1620 nm	1=P1 2=P2 3=P3	1=250um bare fiber 2=900um loose tube 3=3mm loose tube 4=2mm loose tube S=Specify	H=0.5m 8=0.8m 1=1.0m 5=1.5m 2=2.0m 3=3.0m 4=4.0m A=2.5m B=5.0m S=Specify	0=None 1=FC/UPC 2=FC/APC 3=SC/APC 4=SC/UPC 5=MU 6=LC/UPC 7=LC/APC S=Specify