Ultra-Compact CWDM

Auxora's Ultra-compact CWDM is an integrated optical device based on free-space tech bench which can significantly improve optical performance and minimize packaging size.
The Ultra-compact CWDM device features ultra-compact size and super thermal stability, as well as broad pass band and high isolation, which makes it to be ideally used for 40G transceivers as well as Datacom/Telecom network applications.

FEATURES

- Compact Size & Epoxy Free Optical Path
- Commercial temperature(-0~70℃) available
- Good Channel Uniformity
- Ultra-low Insertion Loss
- Telcordia GR-1221 and GR1209 Compliant

APPLICATIONS

- Access networks
- Metro WDM systems
- Telecommunications
- 4G/5G LTE Mobile System

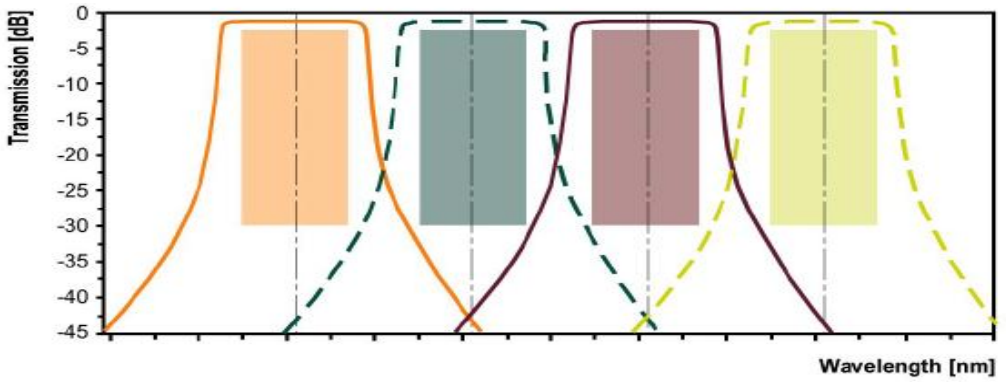
SPECIFICATIONS

Parameter		4-CH	5CH	8CH
Operating Wavelength (nm)		1260～1620		
CWDM Channel Spacing (nm)		20nm ITU Grid		
CWDM Channel Passband (nm)		λc±6.5		
Insertion Loss (dB)	CWDM Channel	≤1.2	≤1.3	≤1.7
Passband Ripple (dB)		≤0.5		
Isolation (dB)	Adjacent	≥30		
	Non-adjacent	≥45		
Polarization Dependent Loss (dB)		≤0.1		
Directivity (dB)		≥50		
Return Loss (dB)		≥50		
Polarization Mode Dispersion (ps)		≤0.1		
Power Handling (mW)		≤500		
Operating Temperature (℃)		0~70		
Storage Temperature (℃)		-40~85		
Package Dimensions(mm)		22x9.8x6.5	26x11.5x6.5	28x16.6x6.5
Fiber type		ITU-T G657.A2		

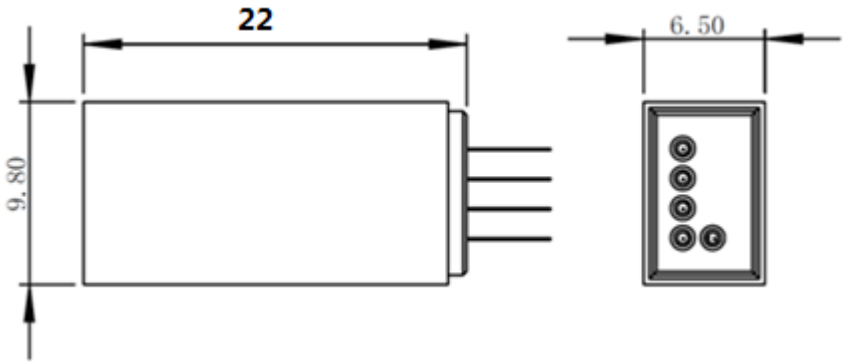
NOTES:

1) All specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.
2) PMD and chromatic dispersion values are guaranteed by design.
3) IL is 0.3 dB higher, RL is 5 dB lower for connector added
4) Specifications are subject to change without notice

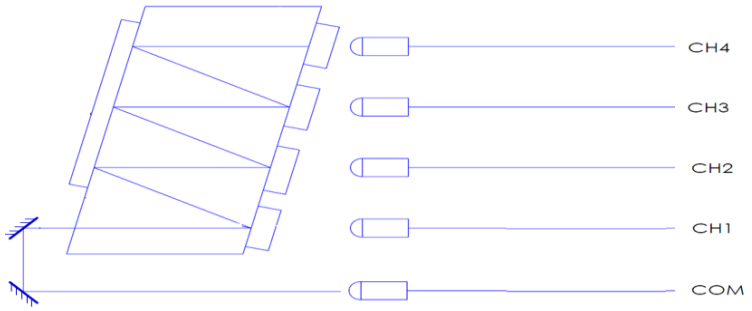
Spectral Diagram(Typical of 4 channel CWDM):



Package Dimensions (mm): 4CH



Port Configuration:



Ordering Information: (e.g. AUCCM-1D040047U11-1010-55)

AUCCM-	X	X	XX	XX(X)	XX	XX	X	-	XX	XX	-	X	X
	Serial Type	Module Type	Port Configuration	Special Ports	Initial Wavelength	Package Type	Fiber Jacket		Fiber Length			Connector	
									Input	Output		Input	Output
	0=0 Serial	M=Mux	01=1-CH	00=None	27=1270/1271	U1=22x9.8x6.5	0=250um Bare fiber		10=1.0m	10=1.0m		0=None	0=None
	1=1 Serial	D=Demux	02=2-CH	01=1310nm Port	29=1290/1291	U2=25x9.8x6.5	1=900um Tube		12=1.2m	12=1.2m		1=FC/UPC	1=FC/UPC
		X= customized	……	02=Monitor Port	……	U3=26x11.5x6.5	2=2.0mm Cable		……	……		2=FC/APC	2=FC/APC
			08=8-CH	03=Express Port	61=1610/1611	U4=28x16.6x6.5	3=3.0mm Cable		15=1.5m	15=1.5m		3=SC/UPC	3=SC/UPC
				04=UPG with Skipper		XX=Customized	X=Customized		XX=customized	XX=customized		4=SC/APC	4=SC/APC
				12=1310nm+Mon.								5=LC/UPC	5=LC/UPC
				13=1310nm+EXP.								6=LC/APC	6=LC/APC
				42=UPG+Monitor								X=Customized	X=Customized

				123=Express+Monitor +EXP.									