

## 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
- Industrial temperature(-40~85°C) 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

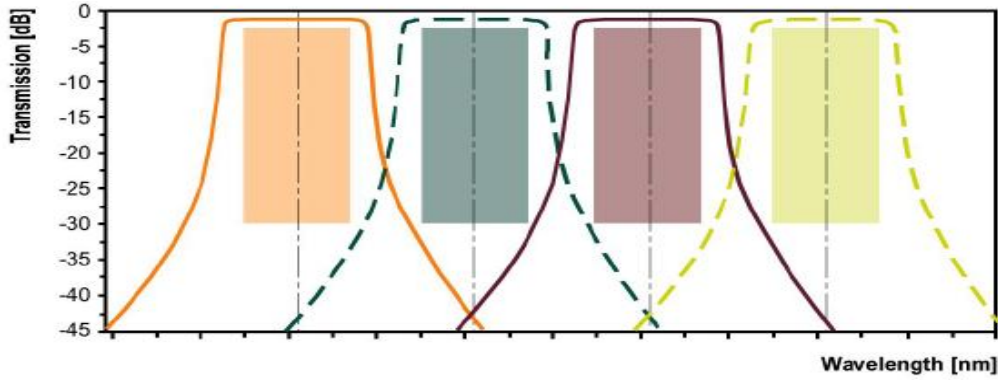
### SPECIFICATIONS

Parameter		4-CH	5CH	8CH
Operating Wavelength (nm)		1260~1620		
CWDM Channel Spacing (nm)		20nm ITU Grid		
CWDM Channel Passband (nm)		$\lambda_c \pm 6.5$		
Insertion Loss (dB)	CWDM Channel	$\leq 1.3$	$\leq 1.5$	$\leq 1.9$
Passband Ripple (dB)		$\leq 0.5$		
Isolation (dB)	Adjacent	$\geq 30$		
	Non-adjacent	$\geq 45$		
Polarization Dependent Loss (dB)		$\leq 0.1$		
Directivity (dB)		$\geq 50$		
Return Loss (dB)		$\geq 50$		
Polarization Mode Dispersion (ps)		$\leq 0.1$		
Power Handling (mW)		$\leq 500$		
Operating Temperature (°C)		-40~85		
Storage Temperature (°C)		-40~85		
Package Dimensions(mm)		U1:22x9.8x6.5	U3: 26x11.5x6.5	U4:28x16.6x6.5
Fiber type		ITU-T G657.A2		

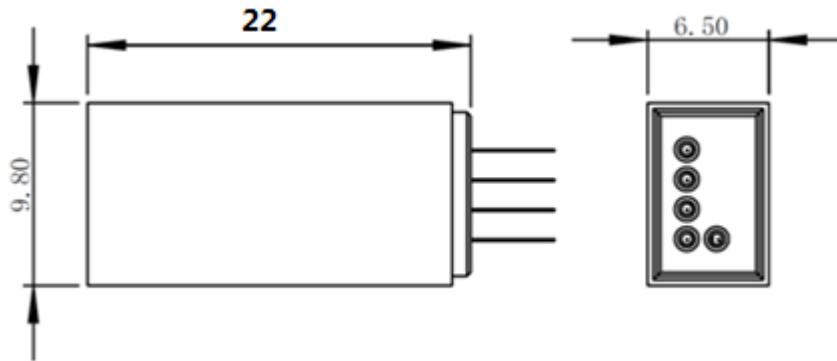
### NOTES:

- 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

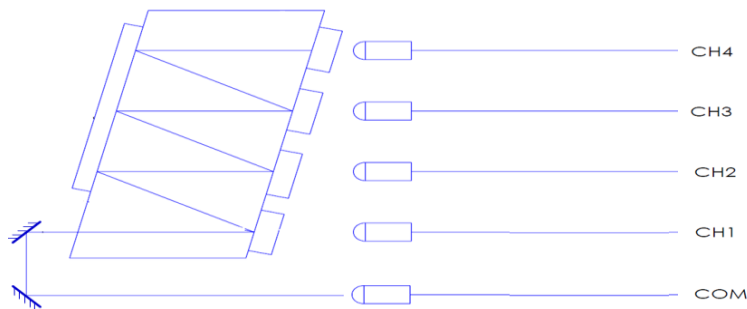
**Spectral Diagram(Typical of 4 channel CWDM):**



**Package Dimensions (mm): 4CH**



**Port Configuration:**



**Ordering Information: (e.g. AUCCM-1M040047U11-1010-55)**

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.									