

## Single Directional DWDM MUX/DEMUX Module

Auxora's DWDM Multiplexer/Demultiplexer is designed to combine/separate several DWDM signals (up to 88 channels) into one or two fibers based on TFF technology. We can provide full complete configuration such as 2, 4, 8, 16, up to 88 channels.

We also provide customized design to suit options of CWDM upgrade port, DWDM upgrade port, monitor ports, bi-directional com port TX/RX, 1310nm and 1550nm wideband port for existing 1310nm and 1550nm equipment.



### FEATURES

- Low insertion loss and High channel isolation
- Exceptional reliability and stability
- Optional extension and wide band ports for network upgrade, existing equipment or Add/Drop
- Epoxy free optical path
- Telcordia GR-1221 and GR1209 compliant

### APPLICATIONS

- DWDM systems
- CATV links
- Wavelength routing
- PON networks

### SPECIFICATIONS

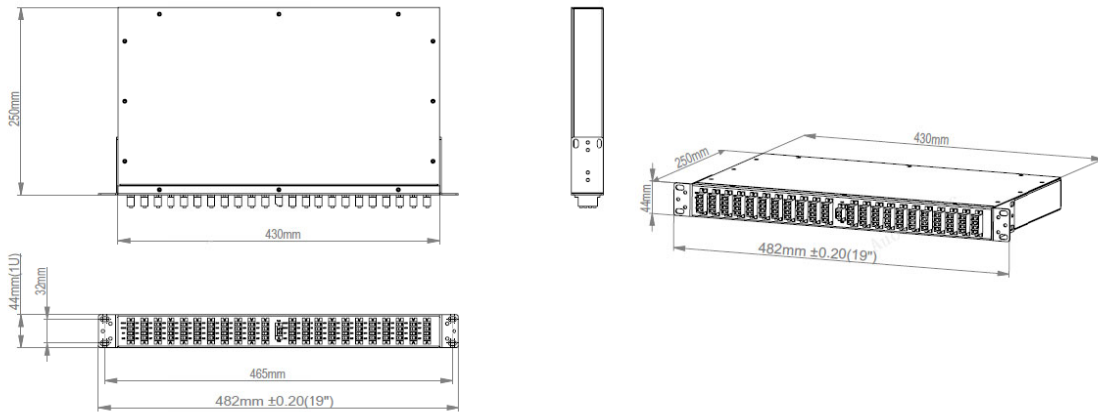
Parameters		2CH	4CH	8CH	16CH	20CH	40CH
Operating Wavelength (nm)		1520~1620					
Channel Spacing (GHz)		100					
Channel Passband (nm)		ITU $\pm$ 0.125					
IL (dB)	Type	$\leq 1.0$	$\leq 1.6$	$\leq 2.5$	$\leq 3.5$	$\leq 4.0$	$\leq 4.4$
	Max	$\leq 1.4$	$\leq 2.0$	$\leq 3.0$	$\leq 4.0$	$\leq 4.5$	$\leq 5.0$
Isolation (dB)	Adjacent Channel	$\geq 30$					
	Non-Adjacent Channel	$\geq 45$					
Pass band Ripple (dB)		$\leq 0.5$					
PDL (dB)		$\leq 0.25$					
PMD (ps)		$\leq 0.1$					
RL (dB)		$\geq 50$					
Directivity (dB)		$\geq 50$					
Max. Optical Power (mw)		500					
Operating Temperature ( $^{\circ}$ C)		-5~75 (C-temp)					
		-40~85 (I-temp)					
Storage Temperature ( $^{\circ}$ C)		-40~85					
Fiber Type		Corning SMF-28e or G657A					
Package Dimension (mm)		ABS or LGX or 19" Rack or Customized					

**NOTES:**

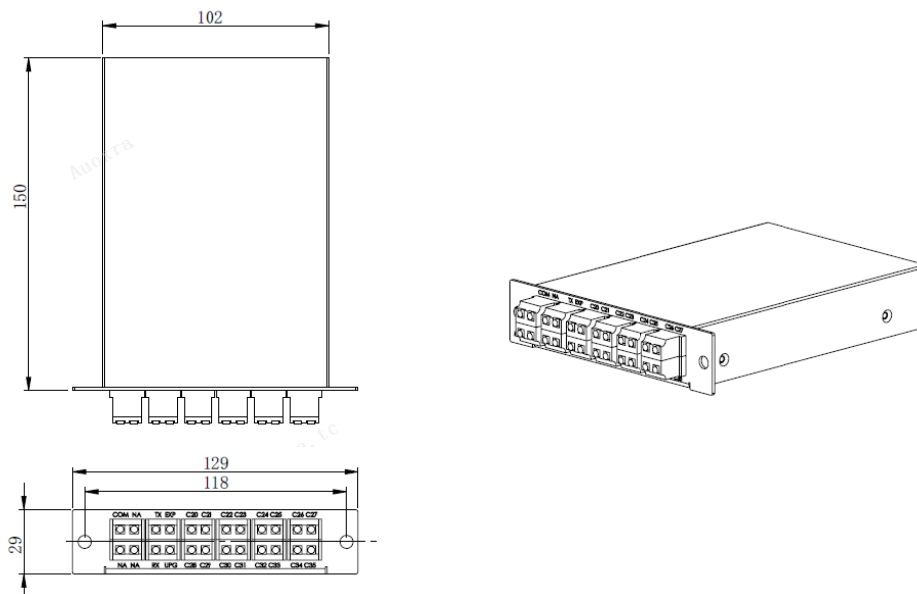
- 1) All specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.
- 2) PMD and chromatic dispersion values are guaranteed by design.
- 3) IL is 0.3 dB higher, RL is 5 dB lower for connector added.
- 4 For modules with monitoring port/skipper UPG port/1310nm legacy port, IL is 0.3dB higher.
- 5) Specifications are subject to change without notice.

**Mechanical Drawing: (only for reference)**

● 19" 1RU Rack chassis

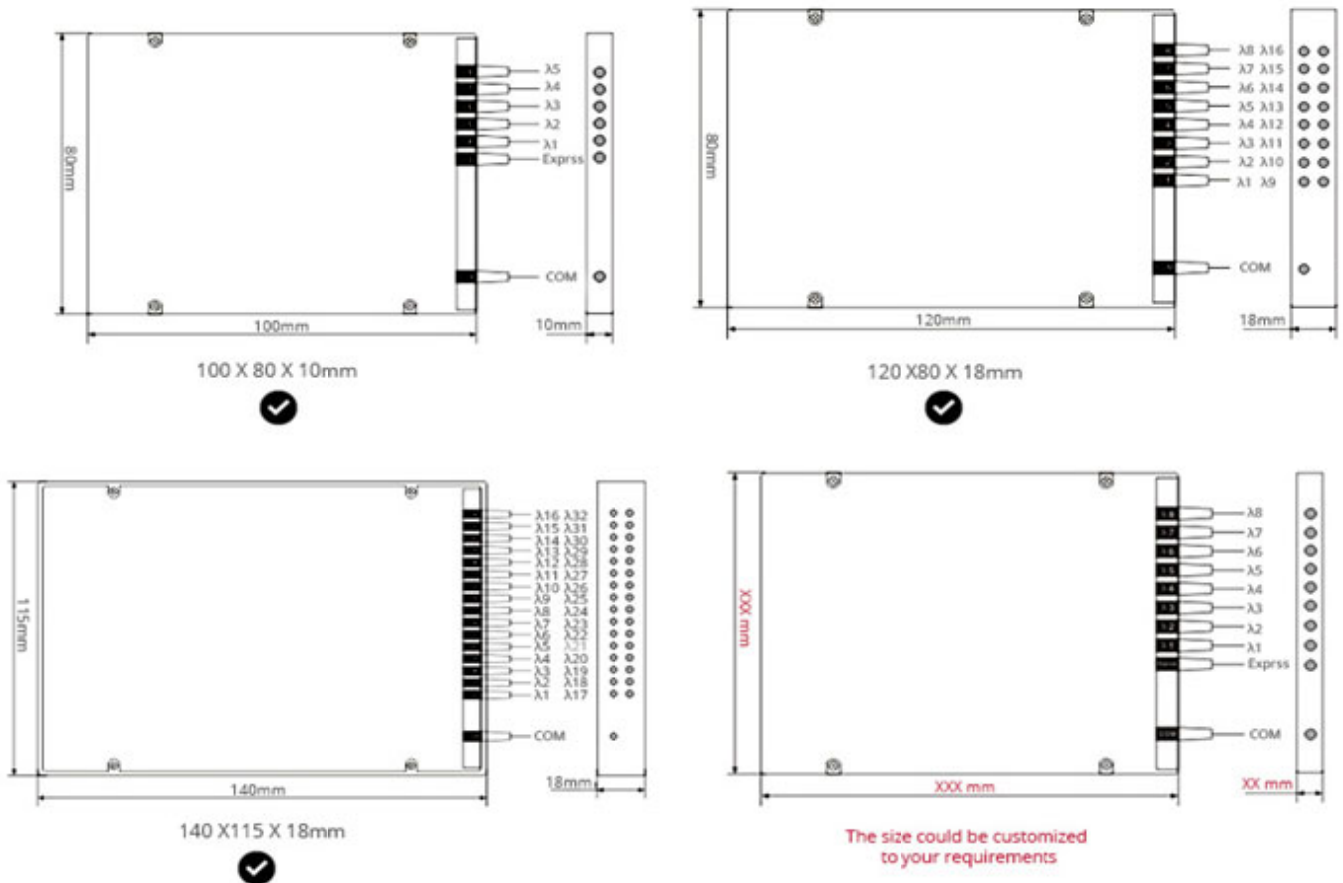


● Standrd LGX



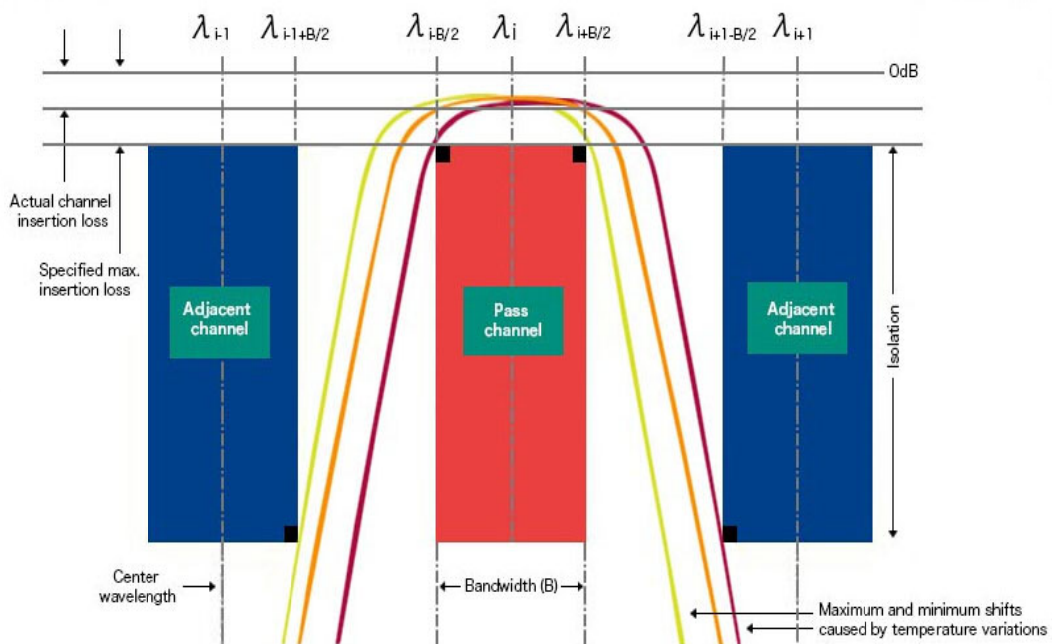
In addition to the standard LGX, we can supply 0.5W LGX (129\*150\*14.5mm) and 2W LGX (129\*150\*58mm)

● **ABS Box**

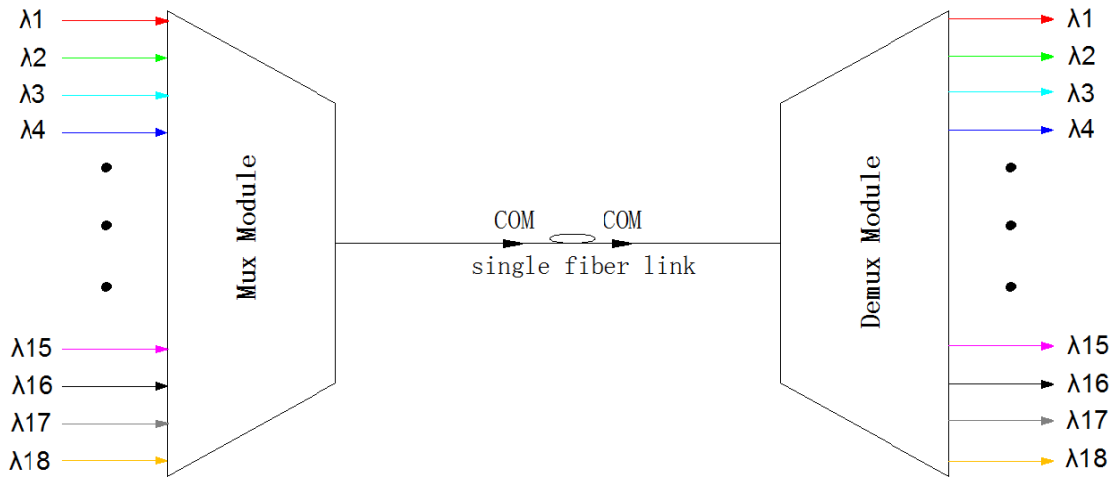


Please note that the drawings shown here only refer to the dimensions and don't not show the specific configuration of the module.

**Typical Spectral Diagram:**



**Inter-connect Diagram:**



**Ordering Information: (e.g.ADM-1D080020PS1-1010-55)**

ADM-	X	X	XX	XX(X)	XX	XX	X	-	XX	Fiber Length		-	Connector	
										Input	Output		Input	Output
	1=100GHz	M=Mux	01=1-CH	00=None	15=C15	P0=80*60*8	0=250um Bare fiber		10=1.0m	10=1.0m		0=None	0=None	
	2=200GHz	D=Demux	02=2-CH	01=1310nm Port	16=C16	P1=80*60*12	1=900um tube		12=1.2m	12=1.2m		1=FC/UPC	1=FC/UPC	
		X= Customized	.....	02=Monitor Port	.....	P2=125*96*15	2=2.0mm Cable		-----	-----		2=FC/APC	2=FC/APC	
			48=48-CH	03=Express Port	72=C72	PS=100*80*10	3=3.0mm Cable		15=1.5m	15=1.5m		3=SC/UPC	3=SC/UPC	
				04=UPG with Skipper		PM=120*80*18	N=NA		NA=N/A	NA=N/A		4=SC/APC	4=SC/APC	
				12=1310nm-Mon.		PL=140*115*18	X=Customized		XX=customized	XX=customized		5=LC/UPC	5=LC/UPC	
				13=1310nm-EXP.		L1=0.5 W LGX						6=LC/APC	6=LC/APC	
				42=UPG+Monitor		L2=1W LGX						XX=Customized	XX=Customized	
				-----		L3=2W LGX								
				123=Express+Monitor +EXP.		19=19"rack mount								
						XX= customized								