

100 GHz Athermal Arrayed Waveguide Grating DWDM Module

Auxora's athermal arrayed waveguide grating DWDM Module is based on silica-on-silicon planar technology and no electrical power and temperature control is required. A variety of commonly used configurations such as 32/40/44/48 channels can be provided, which are all available in standalone 19" or 23" 1RU/2RU rack mount.

Auxora can also provide 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. Combined with our DWDM transceivers or the wavelength converters, the bandwidth of the fiber can be utilized in a cost effective way.



FEATURES

- Low insertion loss & low PDL& high isolation
- No electrical power required
- 100GHz channel spacing
- Available in MUX and DEMUX configurations
- Fully transparent to all data rates and protocols
- Exceptional reliability and stability
- Telcordia GR-1221/1209-CORE compliant

APPLICATIONS

- MUX and DEMUX DWDM systems
- Long haul, metro
- Terminal applications
- Wavelength routing

PACKAGING TYPES:



A



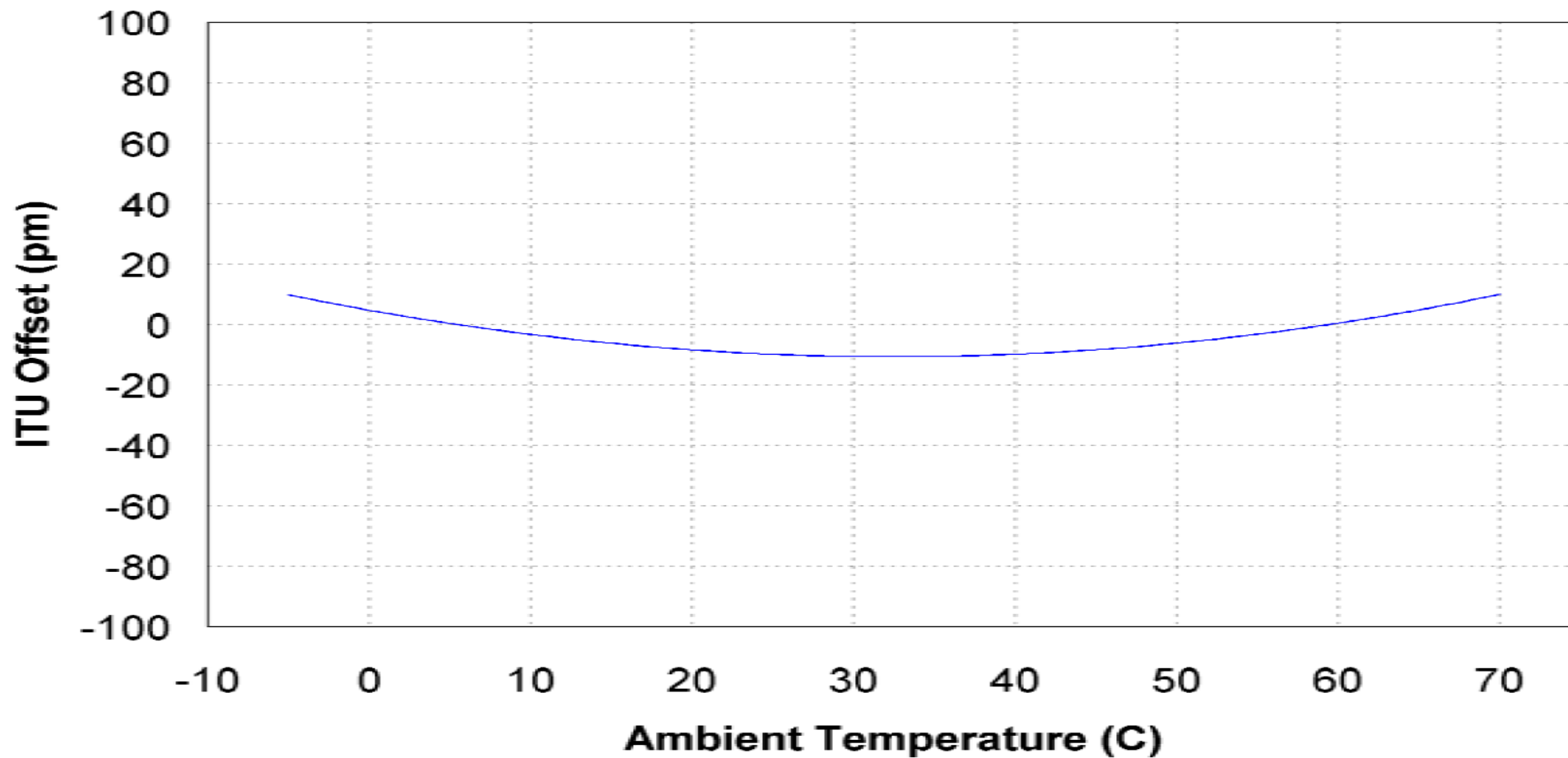
D



E

- Type A: 19" 1RU Rack chassis or 23" 1RU Rack chassis
- Type D: Empty 1RU, 2RU Rack chassis and 4RU Rack Chassis is optional
- Type E: Box.(120x70x11mm)

Wavelength Shift Vs Temperature Change:



Specification

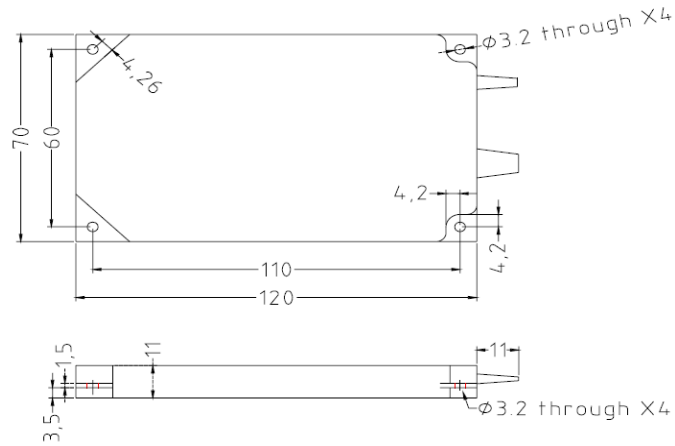
Parameters	Flat-top	Gaussian
Channel Spacing (GHz)	100	
Channel Count	32/40/44/48	
Center Wavelength Accuracy(GHz)	±0.05	
Channel Passband (GHz)	ITU±12.5	
Insertion Loss (dB)	≤ 6.0	≤ 4.5
Insertion Loss uniformity(dB)	≤ 1.5	≤ 1.5
Pass band Ripple (dB)	≤ 0.5	≤ 0.5
1dB Bandwidth (nm)	≥ 0.4	≥ 0.2
3dB Bandwidth (nm)	≥ 0.55	≥ 0.36
Adjacent Isolation (dB)	≥ 25	
Non-Adjacent Isolation (dB)	≥ 29	
Total Crosstalk(dB)	≥ 21	
Polarization Dependent Loss (dB)	≤ 0.5	
Polarization Mode Dispersion (ps)	≤ 0.5	
RL (dB)	≥ 40	
CD (ps/nm)	-15 ~ +15	
Operating Temperature (°C)	-5 ~ 65	
Storage Temperature (°C)	-40 ~ 85	
Maximum Power Handling (mW)	300	
Fiber Type	Corning SMF-28e or G657A	
Package Dimension (mm)	120x70x11 or 19" Rack or Customized	

NOTES:

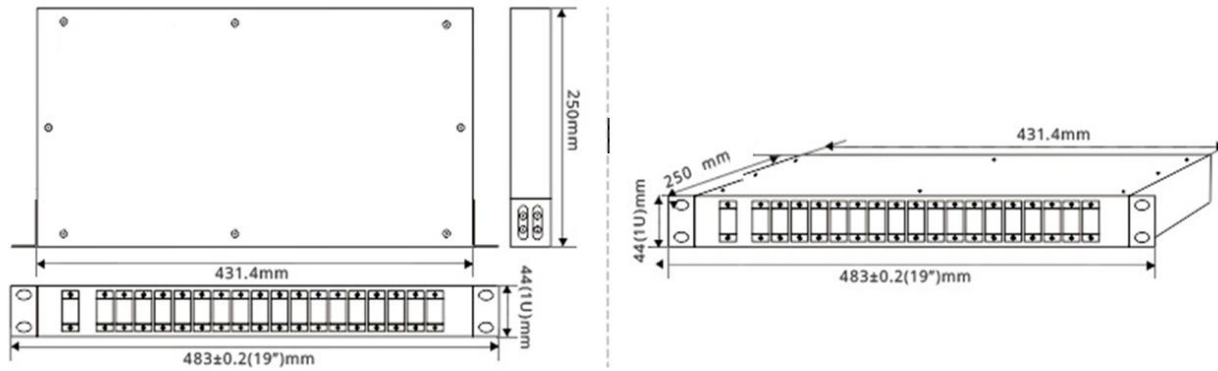
- 1) All specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.
- 2) PMD and chromatic dispersion values are guaranteed by design.
- 3) IL is 0.3 dB higher, RL is 5 dB lower for each connector added
- 4) MUX/DEMUX with 1310nm Port and/or Monitoring port is available for expansion.
- 5) Specifications are subject to change without notice

Mechanical Dimensions (mm)

Standard box:



19" 1RU Rack:



Ordering Information (e.g. AAWG-1F40M00C20A1N-NANA-55)

AAWG-	X	X	XX	X(X)	XX(X)	XXX	XX	X	-	XX	XX	-	X	X
AAWG-	Channel Spacing	Spectrum Shape	Port Configuration	WDM Type	Special Ports	Initial Wavelength	Package Type	Fiber Jacket	Fiber Length		Connector			
									Input	Output	Input	Output		
X	X	X	XX	X(X)	XX(X)	XXX	XX	X		XX	XX		X	X
1=100GHz	F=Flat-top		24=24CH	M=MUX	00=None	C13=C13	A1=19" 1U Rack	0=250um Bare fiber		10=1.0m	10=1.0m		0=None	0=None
5=50GHz	G=Gaussian		32=32CH	D=DEMUX	01=1310nm Port	H13=H13	A2=23" 1U Rack	1=900um tube		12=1.2m	12=1.2m		1=FC/UPC	1=FC/UPC
			40=40CH	MD=MUX=DEMUX	02=Monitor Port	C14=C14	ST=Standard Box	2=2.0mm Cable		.....	.....		2=FC/APC	2=FC/APC
			48=48CH		03=Express Port	H14=H14	B1=19" 2U Rack	3=3.0mm Cable		15=1.5m	15=1.5m		3=SC/UPC	3=SC/UPC
			80=80CH		04=UPG with Skipper	.....	XX= customized	N=NA		NA=N/A	NA=N/A		4=SC/APC	4=SC/APC
			88=88CH		12=1310nm+Mon.	C65=C65		X=Customized		XX=customized	XX=customized		5=LC/UPC	5=LC/UPC
			96=96CH		13=1310nm+EXP.	H65=H65							6=LC/APC	6=LC/APC
					42=UPG+Monitor								X=Customized	X=Customized
													
					123=Express+Monitor +EXP									