

## Polarization Maintaining Athermal AWG DWDM Module (AAWG)

### Features

High Polarization Extinction Ratio  
 Established Silica/Silicon Technology  
 Low Insertion Loss and Crosstalk

### Applications

Polarization Interleaver  
 DWDM Transmission  
 Ultra Long-haul Transmission

### Specifications

Parameters	Unit	Values	
Number of Channel	ch	4,8,16, 32	40, 48
Channel Spacing	GHz	100	
Wavelength Range	GHz	C Band	
Center Wavelength	nm	ITU Grid	
Wavelength Accuracy	nm	±0.04	±0.04
1dB Pass Band	nm	≥0.4	≥0.4
3dB Pass Band	nm	≥0.6	≥0.6
20dB Pass Band	nm	≤1.2	≤1.2
Insertion Loss	dB	≤5.5	≤6.0
Polarization Extinction Ratio	dB	≥18	≥16
Ripple	dB	≤0.5	≤0.5
Loss Uniformity	dB	≤1.0	≤1.5
Adjacent Cross-Isolation	dB	≥25	≥25
Non-Adjacent Cross-Isolation	dB	≥30	≥30
Total Cross-Talk	dB	≥22	≥22
PMD	ps	≤0.5	≤0.5
Chromatic Dispersion	nm	±15	±20
Return Loss	dB	≥40	≥40
Fiber Type		Corning PM 1550	
Pigtail Type		250µm,1m	
Operating Temperature	°C	-5~+65	
Storage Temperature	°C	-40~+85	
Package (mm)	mm	120x70x11	

\*Above specifications are for devices without connector.

\*For devices with connectors, IL+0.3dB, RL-5dB, ER-2dB.

\*The default connector key is aligned to slow axis.

\* Above AWG is built with Flat-top chip, Gaussian chip is available on request.

\* Insertion Loss will be 1.5dB lower for Guassian AWG.

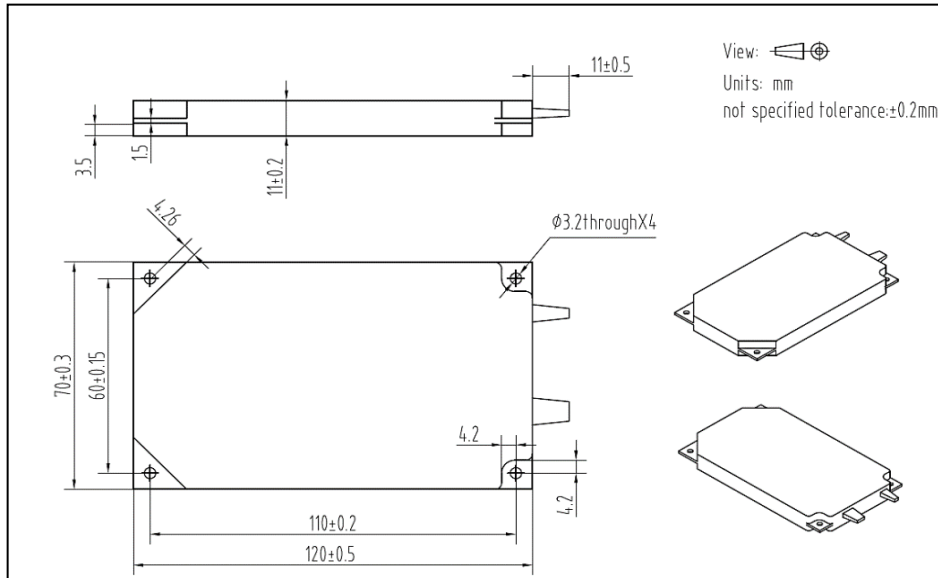
\* Channel number can be customized.

\* Package size can be customized.

\* Wavelength S or L band available.

\* 50G or 200GHz spacing available.

**Package Dimensions**



**Ordering Information**

**AAWG- ①-②-③-④④④-⑤-⑥⑥⑥-⑦-⑧⑧**

①	Channel Space	1=100Ghz;
②	Passband Profile	F=Flat Top;
③	Channel Number	4=4 channel; .....; 32=32 channel;40=40 channel;48=48 channel;
④	Start ITU Channel	C21;C22;.....;
⑤	Fiber Type	5=PM 1550;
⑥	Pigtail Type	250=250µm fiber;
⑦	Length	1=1m;
⑧	Connector	NE=None; FA=FC/APC; FC=FC/UPC; LA=LC/APC; LC=LC/UPC; XX=Other;