

150GHz O-band 17CH AAWG(Gaussian) Module



150G 17CH AAWG module AAWG series products adopt silicon on silicon plane technology, has high performance and reliability, can be used for general DWDM system. Based on a non-thermal design and packaging, it is a completely passive product that does not require any power and temperature control. For 150G AAWG Mux/Demux, it supports up to 17-CH based on a single chipset. Custom wavelength, packaging and fiber options are also available.



Features

- ❖ Low Insertion Loss
- ❖ High Integration
- ❖ Excellent Uniformity
- ❖ Low PMD
- ❖ High stability and reliability

Application

- ❖ Telecom 4G/5G
- ❖ Metro Network
- ❖ Backbone Network
- ❖ Data Center

Performance Specifications

Parameters	Specifications
Operating Wavelength(nm)	1260-1360 (O-band)
Channel	17
Channel Wavelength(THz)	See channel plan
Channel Frequency Interval(GHz)	150
Center Wavelength Bandwidth(GHz)	±18.75
Center Wavelength Accuracy(nm)	±0.05
-1dB Bandwidth(nm)	≥0.23
-3dB Bandwidth(nm)	≥0.42
-20dB Bandwidth(nm)	≤1.20
Pass band Insertion Loss (dB)	≤3.0
Adjacent Isolation(dB)	≥25
Non-Adjacent Isolation(dB)	≥30
Total Cross Talk(dB)	≥24
Insertion Loss Uniformity(dB)	≤1.2
Passband Ripple(dB)	≤1.5
Polarization-related losses(dB)	≤0.5
Polarization Mode Dispersion(ps)	≤0.5
Return Loss(dB)	≥40
Directivity(dB)	≥45
Max Optical Power(mW)	250
Chromatic Dispersion(ps/nm)	±20
Operating Temperature(°C)	-40~+85
Storage Temperature(°C)	-40~+85

*Notes: 1.Insertion Loss tested without connector.

Package Information

Hirundo Optics Inc

Factory:2nd Floor, Building 6, #16 Xinfa Road, Southern Cable Industrial Park, Rongli Ronggui Street, Shunde District, Foshan city, Guangdong 528305 China
Tel: 0757-26619220

Email: info@hirundo-link.com

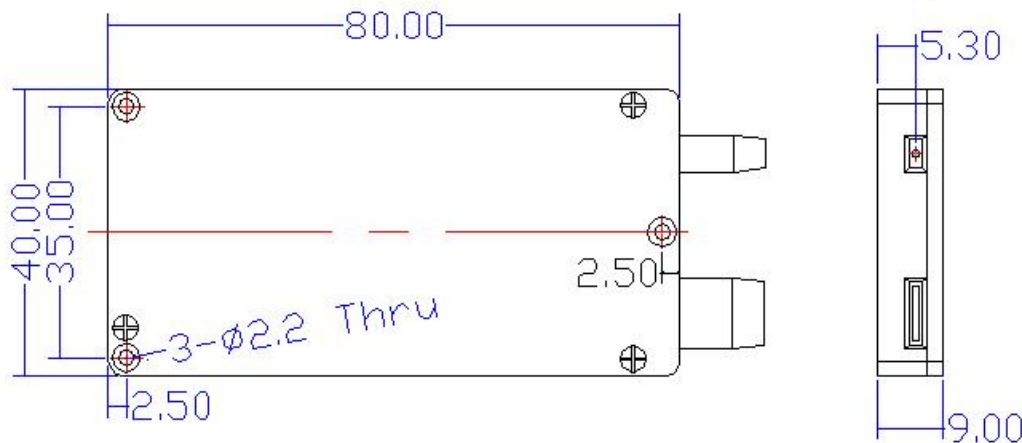
Website: <https://www.hirundo-link.com>

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Fiber Length	1m , or others on request
Fiber Type	G657A /customize
Pigtail Type	Ribbon fiber with 900um loose tube fan-out
Dimensinons(mm)	Metal box L80xW40xH9

Dimensions(Unit:mm)



Channel Plan Port AWG - On grid

The AWG operate in O-band. The channels are as follows:

Channel No.	Frequency THz	Wavelength nm	Channel No.	Frequency THz	Wavelength nm
1	233.60	1283.358	10	232.25	1290.818
2	233.45	1284.183	11	232.10	1291.652
3	233.30	1285.008	12	231.95	1292.487
4	233.15	1285.835	13	231.80	1293.324
5	233.00	1286.663	14	231.65	1294.161
6	232.85	1287.492	15	231.50	1295.000
7	232.70	1288.322	16	231.35	1295.839
8	232.55	1289.153	17	231.20	1296.680
9	232.40	1289.985			

Order information:

AAWG (Athermal AWG) PN: AAWG-XXXXXXXXXX-XX (AAWG+ 10 Code+2 Serial Number)

AAWG	XX	XX	X	X	X	X	X	X	X	XX							
	Channel	Start Channel	Package Type	Chip Type	Fiber Length	Connector	Band	Spacing									
	16	16CH	20	C20	A	Metal box	F	Flat Top	0	0.5m	0	none	C	C-band	1	100G	SN
	24	24CH	21	C21	K	Rackmount	G	Gaussian	1	1.0m	1	SC/UPC	L	L-band	2	200G	
	32	32CH	60	C60	S	Special	B	Broad Gaussian	2	1.5m	2	SC/APC	D	C+L band	3	50G	
	40	40CH	-	...					3	2.0m	3	FC/UPC	O	O-band	4	75G	
	48	48CH	-	ITUChannel					4	2.5m	4	FC/APC	S	Special	5	150G	
	64	64CH							5	3.0m	5	LC/UPC					
	80	80CH							6	3.5m	6	LC/APC					
	96	96CH							7	0.7m	7	ST/UPC					
	OS	Special							8	1.2m	8	E2000					
									9	2.7m	9	MPO					
									S	Special	S	Special					

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