

Introduction:

The AWG operates in O-Band. It meets the following specifications over the operating temperature.

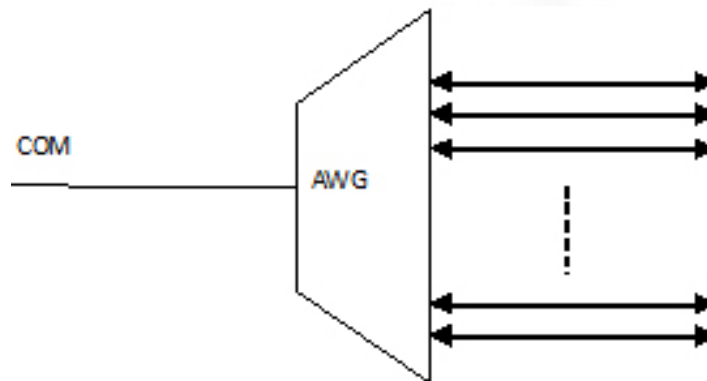
Features:

- Low insertion loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability

Applications:

- WDM Network
- Telecommunication
- Access Network

Optical Functional Scheme:



Specifications:

Parameters	Conditions	Specifications		Unit
		Min.	Max	
Operating Temperature	Non-Condensing Environment	-40	85	°C
Operating Humidity		0	90	%RH
Storage Temperature	Device Not Powered on Heater Element	-40	85	°C
Storage Humidity	Device Not Powered on Heater Element	0	90	%RH

Optical Specifications:

Parameter	Specification			Units	Notes
	Min	Type	Max		
Channel Spacing	150			Ghz	
Number of Channel	17			Channels	
Channel Frequencies	ITU Grid			THz	
Available Channel Frequency Range	233.60		231.2	THz	
Channel Passband	-18.75		+18.55	Ghz	
	-0.10		+0.10	nm	
Center Wavelength Accuracy	-0.05		+0.05	nm	
Insertion Loss	COM-AWG	2.0	2.5	dB	@Center Wavelength
			2.8	3.0	dB
Bandwidth @1.0dB	0.23			nm	
Bandwidth @ 3.0dB	0.42			nm	
Bandwidth @20dB			1.20	nm	
Insertion Loss Uniformity at ITU			1.20	dB	
Polarization Dependent Loss			0.5	dB	
Adjacent Channel Isolation	27	30		dB	
Non-Adjacent Channel Isolation	30	35		dB	
Total Cross Talk	24	26		dB	
Directivity	45			dB	
Return Loss with connectors	40	45		dB	
Chromatic Dispersion	-20		+20	ps/nm	
PMD			0.5	ps	
Optical Power Handling of Common Port			13	dBm	

Channel Plan 17 Port AAWG – On grid

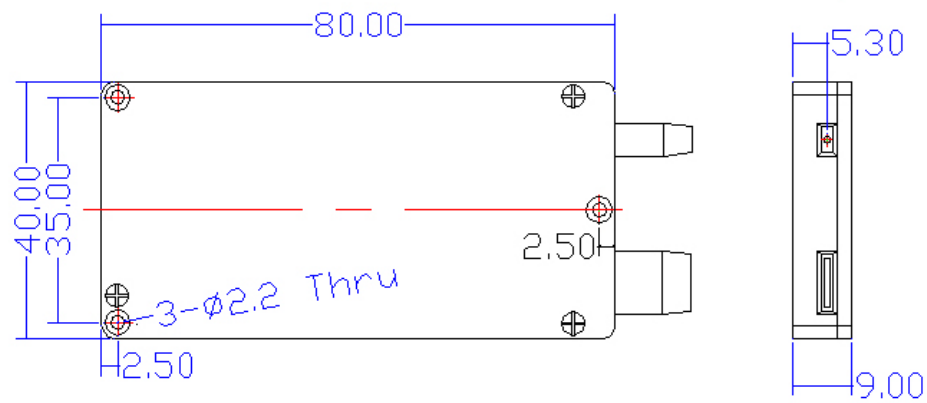
The AAWG operates in O-band. The channels are as follows:

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	18		

Physical Parameters:

Parameter	Min	Type	Max	Units
Length		95		mm
Width		45		mm
Height		8		mm
Length of Input Fiber		900		mm
Length of Output Fibers		1000		mm
Number of Input Fiber		1		
Number of Output Fibers		17		

Package Drawing
Unit: mm



Call your Fiberdyne Sales Representative for Part Number, Packaging options and Pricing.