

**Introduction:**

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

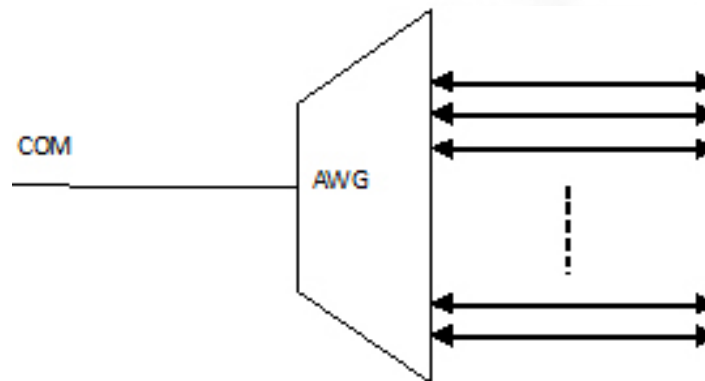
**Features:**

- 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	Full Bandwidth
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			25	dBm		

**Channel Plan 17 Port AWG – On grid**

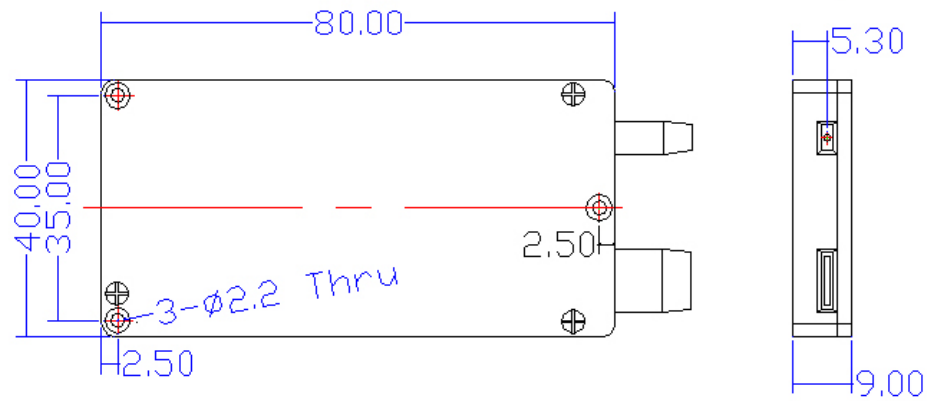
The AWG operates in O-band. The channels are as follows:

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		100		mm
Width		80		mm
Height		9		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



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