

24CH 200GHz Flattop Athermal AWG Module Spec

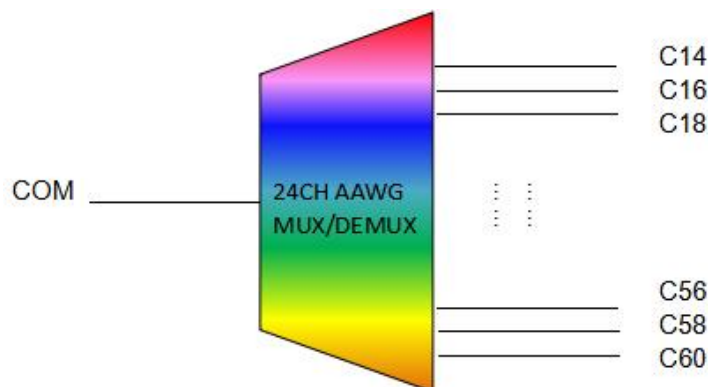
Product PN	Description
AAWG-2414AF15C2-01	24CH 200GHz AAWG, Flattop, LC/UPC 900um 1 meter legs, 120X70X11mm

Performance Specifications

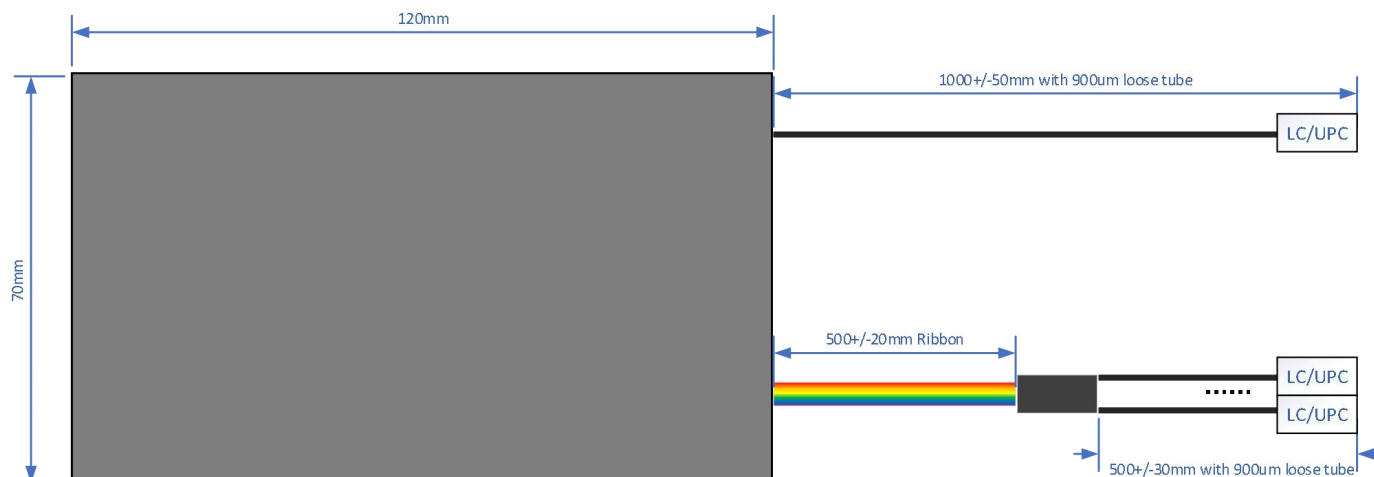
Performance		Unit	Specifications
Operation Wavelength		nm	C-band
Channels		nm	24
Channel Frequency Interval		GHz	200
Target center frequencies		THz	191.40~196.00
Reference Pass-band		GHz	$\lambda \pm 25$
		nm	$\lambda \pm 0.2$
Center Wavelength Accuracy		pm	± 50
1dB Bandwidth		nm	≥ 0.8
3dB Bandwidth		nm	≥ 1.10
Insertion Loss		dB	≤ 6.0
Insertion Loss Uniformity		dB	≤ 1.5
Ripple		dB	≤ 0.5
Polarization-related losses		dB	≤ 0.5
Isolation	Adjacent Channel	dB	≥ 25
	Non-Adjacent Channel	dB	≥ 30
Total Cross Talk		dB	≥ 22
Return Loss		dB	≥ 40
Power Handling		mW	250
Operating Temperature		℃	-5~+65
Storage Temperature		℃	-40~+85
Fiber Type		/	SMF28e with 900um loose tube
Connector Type		/	LC/UPC
Package size		mm	120 x 70 x 11
Rohs Requirement		/	Rohs Compliant

***Notes:** 1. Insertion Loss tested with connector.

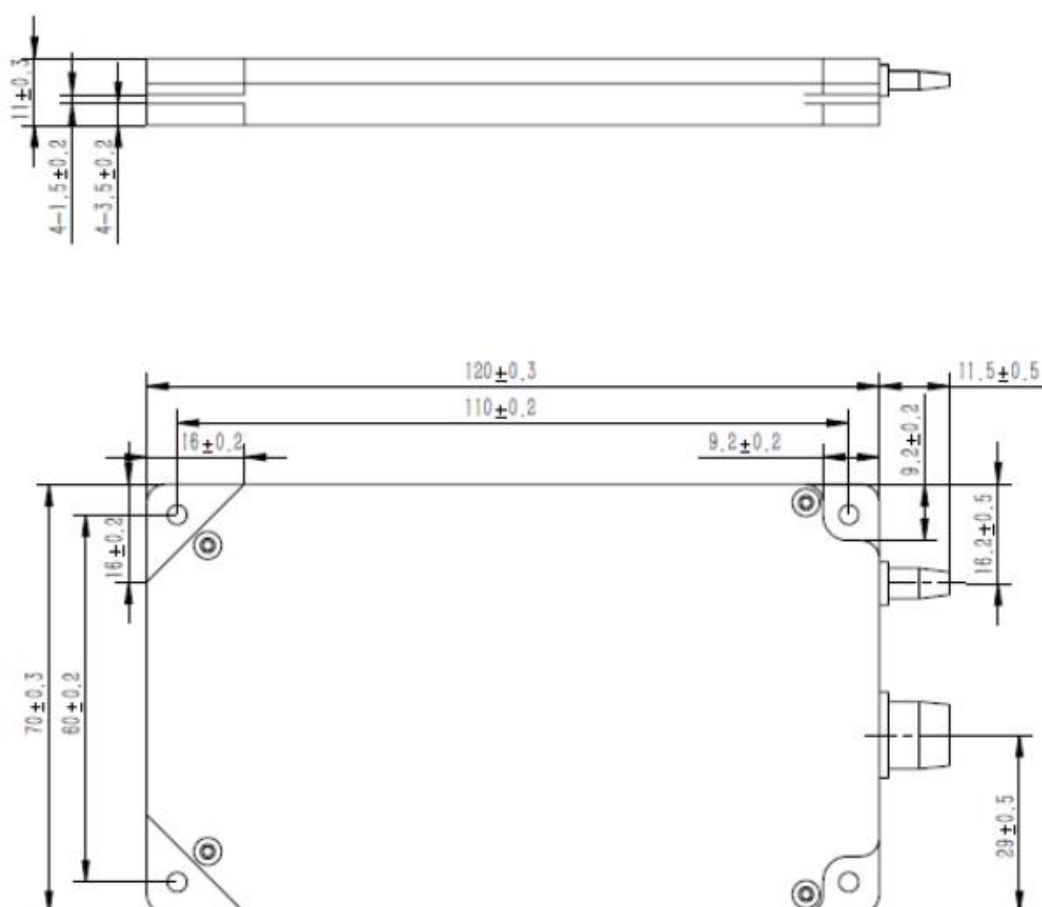
Structures



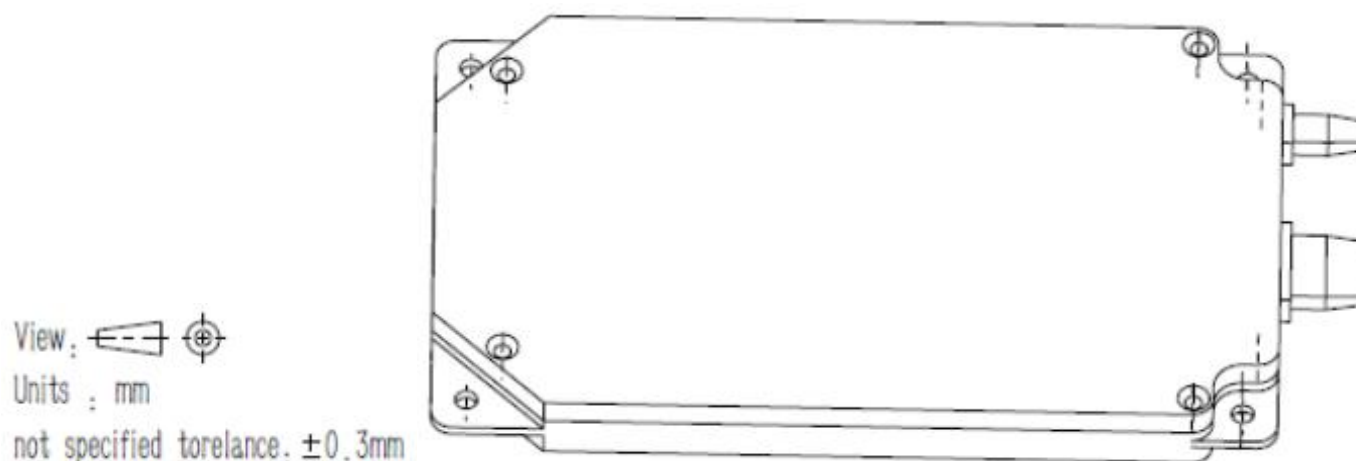
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Mechanical Dimensions



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Channel Plan Port AWG - On grid

The AWG operate in C-band. The C-band channel allocation is based on ITU-T Grid. The channels are as follows:

Label content	f(THz)	$\lambda(\text{nm})$
C60	196	1529.553
C58	195.8	1531.116
C56	195.6	1532.681
C54	195.4	1534.250
C52	195.2	1535.822
C50	195	1537.397
C48	194.8	1538.976
C46	194.6	1540.557
C44	194.4	1542.142
C42	194.2	1543.730
C40	194	1545.322
C38	193.8	1546.917
C36	193.6	1548.515
C34	193.4	1550.116
C32	193.2	1551.721
C30	193	1553.329
C28	192.8	1554.940
C26	192.6	1556.555
C24	192.4	1558.173
C22	192.2	1559.794
C20	192	1561.419
C18	191.8	1563.047
C16	191.6	1564.679
C14	191.4	1566.314

Order information :

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AAWG (Athermal AWG) PN: AAWG-XXXXXXXXXX-XX (AAWG+10 Code+2 Serial Number)																	
AAWG	XX		XX		X		X		X		X		X		XX		
	Channel		Start Channel		Package Type		Chip Type		Fiber Length		Connector		Band		Spacing		
	16	16CH	20	C20	A	Metal Module	F	Flat Top	0	0.5m	0	none	C	C-band	1	100G	S N
	20	20CH	21	C21	K	Rackmount	G	Gaussian	1	1.0m	1	SC/UPC	L	L-band	2	200G	
	24	24CH	60	C60	S	Special	B	Broad Gaussian	2	1.5m	2	SC/APC	D	C+L band	3	50G	
	32	32CH	...	...					3	2.0m	3	FC/UPC	S	Special	4	75G	
	40	40CH		ITUChannel					4	2.5m	4	FC/APC			5	150G	
	41	41CH							5	3.0m	5	LC/UPC					
	44	44CH							6	3.5m	6	LC/APC					
	45	45CH							7	0.7m	7	ST/UPC					
	48	48CH							8	1.2m	8	E2000					
	64	64CH							9	2.7m	9	MPO					
	80	80CH							S	Special	S	Special					
	96	96CH															
	0S	Special															