

PM 96-Channel 50GHz Athermal AWG Module

The AWG operate in C-band. And it meet the following specification over the operating temperature.

1. Technical Parameter

Parameters	Notes	Specifications		Units
		Min	Max	
Channels		96		Ch
Channel Spacing		50		GHz
Reference Pass-band	Relative to ITU Grid	± 0.05		nm
ITU Frequency	On ITU grid in C-band	196.10	191.35	THz
ITU Wavelength	On ITU grid in C-band	1528.773	1566.723	nm
Center Frequency Accuracy	Maximum of the absolute deviation of the 3 dB center wavelength from ITU grid over all channels	-0.04	+0.04	nm
Insertion Loss	Maximum of the insertion loss across the ITU pass-band over all channels (see note1)		6.5	dB
Insertion Loss Uniformity	Maximum insertion loss variance across all channels		1.5	dB
Ripple	Maximum of the loss variance across the ITU pass-band over all channels		0.7	dB
Extinction Ratio		15		dB
1dB Bandwidth	1dB from min Insertion Loss, full width, average polarization	0.18		nm
3dB Bandwidth	3 dB from min Insertion Loss, full width, average polarization	0.28		nm
20 dB bandwidth	20 dB from min Insertion Loss, full width, average polarization		0.7	nm
Adjacent Channel Isolation	Ratio of peak transmission to the maximum transmission over both adjacent pass-bands	25		dB
Non-Adjacent Channel Isolation	Ratio of peak transmission in channel pass-bands to maximum transmission over all non-adjacent pass-bands	30		dB
Total Crosstalk	Ratio of power in channel to power in all other pass-bands	20		dB
Polarization Dependent Loss	Maximum ratio of transmissions over all polarization states, over the ITU pass-band		0.5	dB
Return Loss		40		dB
Polarization Mode Delay (PMD)	In Reference Passband over all channels		1.0	ps
Chromatic Dispersion	In Reference Passband over all channels	-35	35	ps/nm
Optical Power	at common port		23	dBm

***Notes:** All parameters are the worst-case across clear ITU window, temperature (-10°C to 65°C).Connector loss is included.

2. Operating&Storage Conditions

Parameter	Min	Type	Max	Units
Operating Temperature	-10		65	°C
Operating Relative Humidity (Non-condensing)	0		90	% R.H.
Storage Temperature	-40		85	°C
Storage Relative Humidity (Non-condensing)	0		90	% R.H.

3. Physical Parameters

Parameter	Min	Type	Max	Units
Length		135		mm
Width		70		mm
Height		12		mm
Length of Input fiber		900		mm
Length of Output Fibers		1000		mm
Number of Input Fiber		1		
Number of Output Fibers		40	96	

4. Channel Plan 96 Port AWG - On grid

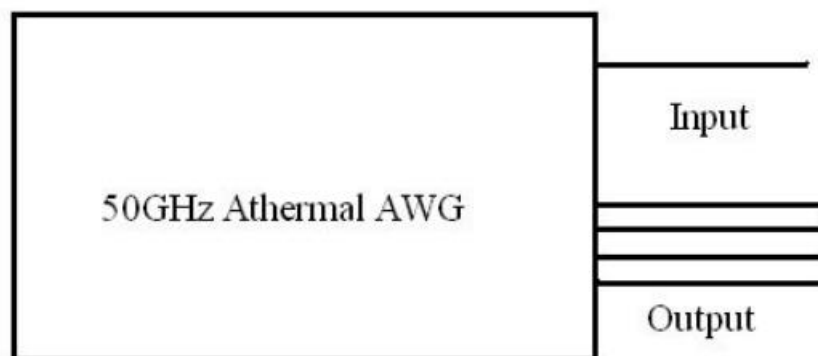
The AWG operate in C-band. The C-band channel allocation is based on ITU-T Grid. The channels are as follows:

Channel	Frequency(THz)	Wavelength(nm)	Channel	Frequency(THz)	Wavelength(nm)
1	196.1	1528.773	2	196.05	1529.163
3	196	1529.553	4	195.95	1529.944
5	195.9	1530.334	6	195.85	1530.725
7	195.8	1531.116	8	195.75	1531.507
9	195.7	1531.898	10	195.65	1532.290
11	195.6	1532.681	12	195.55	1533.073
13	195.5	1533.465	14	195.45	1533.858
15	195.4	1534.25	16	195.35	1534.643
17	195.3	1535.036	18	195.25	1535.429
19	195.2	1535.822	20	195.15	1536.216
21	195.1	1536.609	22	195.05	1537.003
23	195	1537.397	24	194.95	1537.792
25	194.9	1538.186	26	194.85	1538.581
27	194.8	1538.976	28	194.75	1539.371
29	194.7	1539.766	30	194.65	1540.162
31	194.6	1540.557	32	194.55	1540.953
33	194.5	1541.349	34	194.45	1541.746
35	194.4	1542.142	36	194.35	1542.539
37	194.3	1542.936	38	194.25	1543.333
39	194.2	1543.73	40	194.15	1544.128
41	194.1	1544.526	42	194.05	1544.924
43	194	1545.322	44	193.95	1545.720

45	193.9	1546.119	46	193.85	1546.518
47	193.8	1546.917	48	193.75	1547.316
49	193.7	1547.715	50	193.65	1548.115
51	193.6	1548.515	52	193.55	1548.915
53	193.5	1549.315	54	193.45	1549.715
55	193.4	1550.116	56	193.35	1550.517
57	193.3	1550.918	58	193.25	1551.319
59	193.2	1551.721	60	193.15	1552.122
61	193.1	1552.524	62	193.05	1552.926
63	193	1553.329	64	192.95	1553.731
65	192.9	1554.134	66	192.85	1554.537
67	192.8	1554.94	68	192.75	1555.343
69	192.7	1555.747	70	192.65	1556.151
71	192.6	1556.555	72	192.55	1556.959
73	192.5	1557.363	74	192.45	1557.768
75	192.4	1558.173	76	192.35	1558.578
77	192.3	1558.983	78	192.25	1559.389
79	192.2	1559.794	80	192.15	1560.200
81	192.1	1560.606	82	192.05	1561.013
83	192	1561.419	84	191.95	1561.826
85	191.9	1562.232	86	191.85	1562.640
87	191.8	1563.047	88	191.75	1563.455
89	191.7	1563.863	90	191.65	1564.271
91	191.6	1564.679	92	191.55	1565.087
93	191.5	1565.496	94	191.45	1565.905
95	191.4	1566.314	96	191.35	1566.723

5. Mechanical Dimensions

Unit : mm 135*70*12/or 120x70x12



Order information :

