

## 64Ch 75GHz FT AAWG Module

### Optical Parameter Specifications

Parameters	Notes	Specifications		Units
		Min	Max	
Channels		64		Ch
Channel Spacing		75		GHz
Reference Passband	For all operating conditions, around ITU	$\pm 9$		GHz
ITU Frequency (64 ch)	On ITU grid in C-band	191.275	196	THz
Minimum Insertion Loss	EOL. Worst case in the passband of +/- 31.5GHz (with connector)	3.0		dB
Maximum Insertion Loss	BOL. Worst case in the passband (with connector)		5.5	dB
Insertion Loss Uniformity	Over all channels		1.3	dB
WDL/Ripple	Maximum range from the insertion loss variation within passband		0.5	dB
1.5dB Bandwidth	Passband width at xdB level below the peak of mean transmission curve (ILmin of average polarization)	60		GHz
3dB Bandwidth		80		
Adjacent Channel Isolation	Maximum insertion loss difference from the mean transmission at the ITU grid wavelength to the highest power within passband, all polarizations, within the ITU band of the two adjacent channels.	8		dB
Non-Adjacent Channel Isolation	Maximum insertion loss difference from the mean transmission at the ITU grid wavelength to the highest power within passband, all polarizations, within the ITU band of the worst case non-adjacent channel.	30		dB
Total Integrated Isolation	Total cumulative insertion loss difference from the mean transmission at the ITU grid wavelength to the highest power within passband, all polarizations, within the ITU band of all other channels, including adjacent channels.	5		dB
Polarization Dependent Loss	Within passband		0.7	dB
Return Loss	On any port with connectors	40		dB
Polarization Mode Delay	In Reference Passband over all channels		0.50	ps
Chromatic Dispersion	Within passband	-20	20	ps/nm

**Channel Plan**

Channel	Frequency (THz)	Wavelength (nm)	Channel	Frequency (THz)	Wavelength (nm)
64	191.2750	1567.337	32	193.6750	1547.915
63	191.3500	1566.723	31	193.7500	1547.316
62	191.4250	1566.109	30	193.8250	1546.717
61	191.5000	1565.496	29	193.9000	1546.119
60	191.5750	1564.883	28	193.9750	1545.521
59	191.6500	1564.271	27	194.0500	1544.924
58	191.7250	1563.659	26	194.1250	1544.327
57	191.8000	1563.047	25	194.2000	1543.730
56	191.8750	1562.436	24	194.2750	1543.135
55	191.9500	1561.826	23	194.3500	1542.539
54	192.0250	1561.216	22	194.4250	1541.944
53	192.1000	1560.606	21	194.5000	1541.349
52	192.1750	1559.997	20	194.5750	1540.755
51	192.2500	1559.389	19	194.6500	1540.162
50	192.3250	1558.780	18	194.7250	1539.568
49	192.4000	1558.173	17	194.8000	1538.976
48	192.4750	1557.566	16	194.8750	1538.383
47	192.5500	1556.959	15	194.9500	1537.792
46	192.6250	1556.353	14	195.0250	1537.200
45	192.7000	1555.747	13	195.1000	1536.609
44	192.7750	1555.142	12	195.1750	1536.019
43	192.8500	1554.537	11	195.2500	1535.429
42	192.9250	1553.933	10	195.3250	1534.839
41	193.0000	1553.329	9	195.4000	1534.250
40	193.0750	1552.725	8	195.4750	1533.661
39	193.1500	1552.122	7	195.5500	1533.073
38	193.2250	1551.520	6	195.6250	1532.485
37	193.3000	1550.918	5	195.7000	1531.898
36	193.3750	1550.317	4	195.7750	1531.311
35	193.4500	1549.715	3	195.8500	1530.725
34	193.5250	1549.115	2	195.9250	1530.139
33	193.6000	1548.515	1	196.0000	1529.553

## Environmental Operating Conditions

Parameters	Notes	Specifications		Units
		Min	Max	
Operating Temperature		-5	+70	°C
Storage Temperature		-40	+85	°C
Max Optical Power Handling (single port)			500	mW

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