Technical parameter

ameter	Specification			Notes
	Min	Type	Max	
Channel Spacing (Ghz)		100		
Nos of Channel (Channels)		40/48		
Channel Frequencies (THz)		ITU Grid		
Available Channel Frequency Range (THz)	191.70		196.40	
Channel Passband (Ghz)	-12.5		+12.5	
	-0.10		+0.10	
Center Wavelength Accuracy (nm)	-0.05		+0.05	
Insertion Loss (dB)			5.5	@Center Wavelength
			6.0	Full Bandwidth
Passband Ripple (nm)		1.0	1.5	Full Bandwidth
Bandwidth @1.0dB (nm)	0.32			
Bandwidth @3.0dB (nm)	0.58			
Bandwidth @20dB (nm)			1.20	
Insertion Loss Uniformity at ITU (dB)			1.50	
Polarization Dependent Loss (dB)			0.5	
Adjacent Channel Isolation (dB)	27	30		
Non-Adjacent Channel Isolation (dB)	30	35		
Total Cross Talk (dB)	24	24		
Directivity (dB)	45			
Return Loss with connectors (dB)	40	45		
Chromatic Dispersion (ps/nm)	-20		+20	
PMD (ps)			0.5	
Optical Power Handling of Common Port (dBm)			24	

Operating Conditions

Parameter		Min		Max	Units
Temperature		-40		85	℃
Humidity	Non-condensing	0		90	% R.H.

Storage Conditions

Parameter		Min		Max	Units
Temperature		-40		85	℃
Humidity	Non-condensing	0		90	% R.H.

Physical Parameters

Parameter		Min	Type	Max	Units
Length			80		mm
Width			40		mm
Height			9		mm
Length of Input fiber			900		
Length of Output Fibers			1000		mm
Number of Input Fiber			1		
Number of Output Fibers		8	40	48	

Channel Plan 48 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 No.	ITU Channel	Frequency THz	Wavelength nm	Channel No.	ITU Channel	Frequency THz	Wavelength nm
1	60	196	1529.553	25	36	193.6	1547.715
2	59	195.9	1530.334	26	35	193.5	1548.515
3	58	195.8	1531.116	27	34	193.4	1549.315
4	57	195.7	1531.898	28	33	193.3	1550.116
5	56	195.6	1532.681	29	32	193.2	1550.918
6	55	195.5	1533.465	30	31	193.1	1551.721
7	54	195.4	1534.25	31	30	193	1552.524
8	53	195.3	1535.036	32	29	192.9	1553.329
9	52	195.2	1535.822	33	28	192.8	1554.134
10	51	195.1	1536.609	34	27	192.7	1554.94
11	50	195	1537.397	35	26	192.6	1555.747
12	49	194.9	1538.186	36	25	192.5	1556.555
13	48	194.8	1538.976	37	24	192.4	1557.363
14	47	194.7	1539.766	38	23	192.3	1558.173
15	46	194.6	1540.557	39	22	192.2	1558.983
16	45	194.5	1541.349	40	21	192.1	1559.794
17	44	194.4	1542.142	41	20	192	1560.606
18	43	194.3	1542.936	42	19	191.9	1561.419
19	42	194.2	1543.73	43	18	191.8	1562.233
20	41	194.1	1544.526	44	17	191.7	1563.047
21	40	194	1545.322	45	16	191.6	

22	39	193.9	1545.322	46	15	191.5	
23	38	193.8	1546.119	47	14	191.4	
24	37	193.7	1546.917	48	13	191.3	

Ordering Information: HC-AWG-A-B-C-D-E-F-G-H

AAWGM	A	B	C	D	E	F	G	H
	Package	Module Type	Channel Space	Pass band Profile	Channel Number	Start Channel	Com	Pass
A=Athermal A=Array W=Wavelength G=Grating M=Module	1U=1U 2U=2U ST=Box	M=Mux D=Demux 1=Mux and Demux	1=100GHz 2=50GHz	F=Flat-top G=Gauss	32=32 40=40 48=48	C17=C17 C21=C21	0=None 1=FC/UPC 2=FC/APC 3=SC/UPC 4=SC/APC 5=LC/UPC 6=LC/APC	0=None 1=FC/UPC 2=FC/APC 3=SC/UPC 4=SC/APC 5=LC/UPC 6=LC/APC

Note: Typical channel plan: ITU wavelengths 50G H13(1566.72nm)-C61(1528.77nm).