

Description:

75GHz 64-Ch Flattop AAWG

Product Function:

Optical functional scheme

Applications:

The specifications serve for C-Band AWG Flattop Mux/Demux in DWDM system.



Absolute Maximum Ratings

Parameters	Conditions	Specifications	Unit
Operating Temperature	Non-Condensing Environment	-5 ~+65	°C
Storage Temperature	Device Not Powered on Heater Element	-40~+85	°C

Optical Specifications:

Wavelength Parameter	Wavelength Range	Units
Center Wavelength	fc	
Working Bandwidth (ITU Band) -WB	fc± 31.5	GHz
Isolation Bandwidth - IBW	fc± 9.0	GHz

Test Parameter	Channel Ports	Test Requirement	Min	Max	Units
0.5dB net half Bandwidth		>22.5			GHz
3 dB net half Bandwidth		>36.0			GHz
Mux/Demux Insertion Loss at ITU Grid EOL	All ports at fc	To be tested	4.0	6.5	dB
Insertion Loss Variation	All ports at ITU	To be tested		1.5	dB
Channel Isolation	Adjacent Channel,	To be tested	13		dB
	Non-Adjacent	To be tested	30		dB
Cumulative Isolation	All Ports over IBW	To be tested	11		dB
Return Loss	All Ports	To be tested	36		dB
Directivity	All Ports	Guaranteed by design	45		dB
PDL	All Ports over WB	To be tested		1.1	dB
	All Ports @ ITU	To be tested		0.7	dB
Differential Group Delay	All Ports over WB	Guaranteed by design	1		ps
Chromatic Dispersion	All Ports over WB	Guaranteed by design	-33	33	ps/nm

Channel Plan:

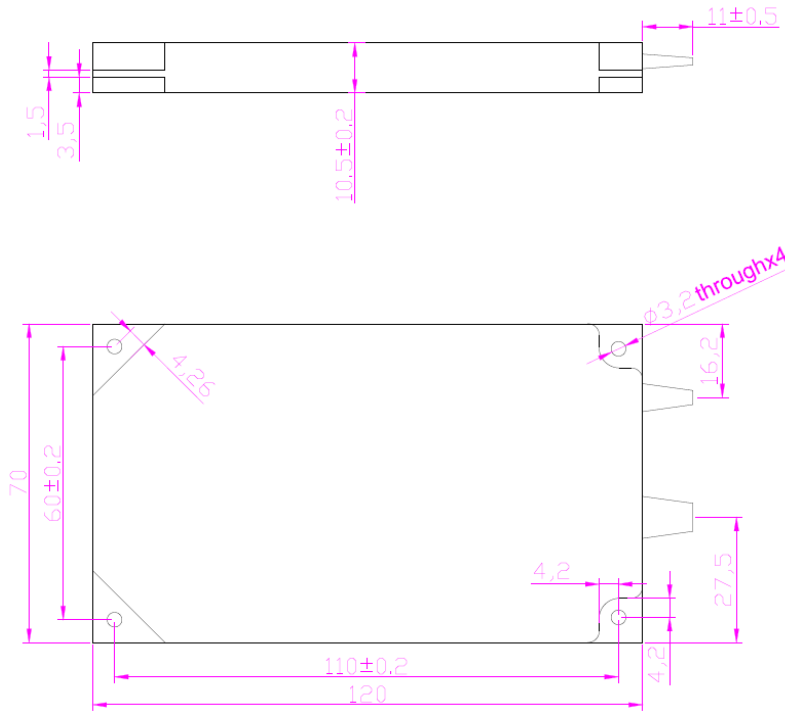
Ch #	Wavelength (nm)	Frequency (THz)
1	1566.62	191.3625
2	1566.01	191.4375
3	1565.39	191.5125
4	1564.78	191.5875
5	1564.17	191.6625
6	1563.56	191.7375
7	1562.95	191.8125
8	1562.33	191.8875
9	1561.72	191.9625
10	1561.11	192.0375
11	1560.50	192.1125
12	1559.90	192.1875
13	1559.29	192.2625
14	1558.68	192.3375
15	1558.07	192.4125
16	1557.46	192.4875
17	1556.86	192.5625
18	1556.25	192.6375
19	1555.65	192.7125
20	1555.04	192.7875
21	1554.44	192.8625
22	1553.83	192.9375
23	1553.23	193.0125
24	1552.62	193.0875
25	1552.02	193.1625
26	1551.42	193.2375
27	1550.82	193.3125
28	1550.22	193.3875
29	1549.62	193.4625
30	1549.01	193.5375
31	1548.41	193.6125
32	1547.82	193.6875

Ch #	Wavelength (nm)	Frequency (THz)
33	1547.22	193.7625
34	1546.62	193.8375
35	1546.02	193.9125
36	1545.42	193.9875
37	1544.82	194.0625
38	1544.23	194.1375
39	1543.63	194.2125
40	1543.04	194.2875
41	1542.44	194.3625
42	1541.84	194.4375
43	1541.25	194.5125
44	1540.66	194.5875
45	1540.06	194.6625
46	1539.47	194.7375
47	1538.88	194.8125
48	1538.28	194.8875
49	1537.69	194.9625
50	1537.10	195.0375
51	1536.51	195.1125
52	1535.92	195.1875
53	1535.33	195.2625
54	1534.74	195.3375
55	1534.15	195.4125
56	1533.56	195.4875
57	1532.98	195.5625
58	1532.39	195.6375
59	1531.80	195.7125
60	1531.21	195.7875
61	1530.63	195.8625
62	1530.04	195.9375
63	1529.46	196.0125
64	1528.87	196.0875

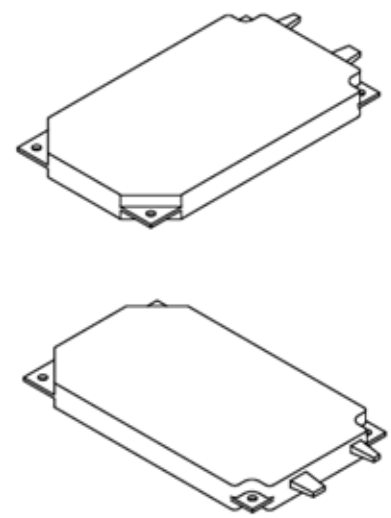
Note: All specifications being applicable to both Mux and Demux

Mechanical Dimensions:

Parameter	Specification	Units	Note
Packaged Size	120x70x11	mm	Mux or Demux

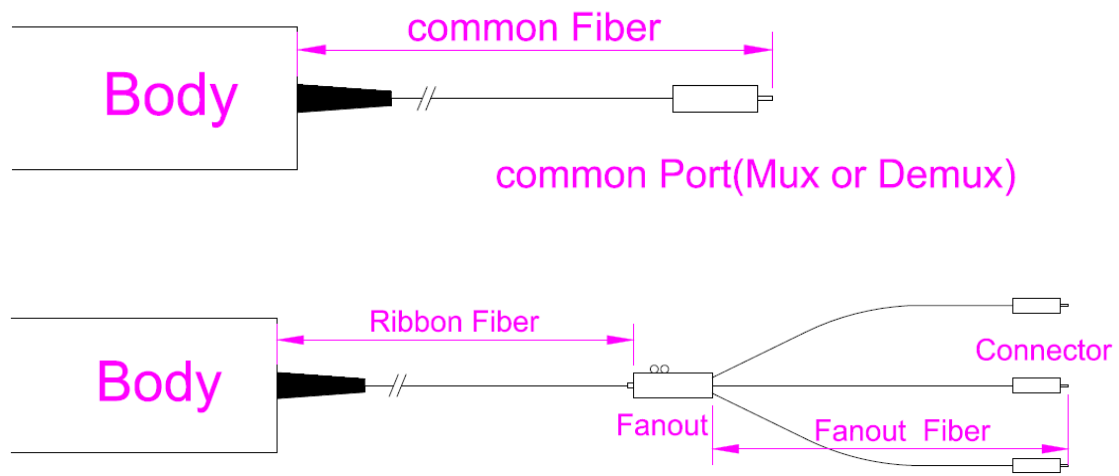


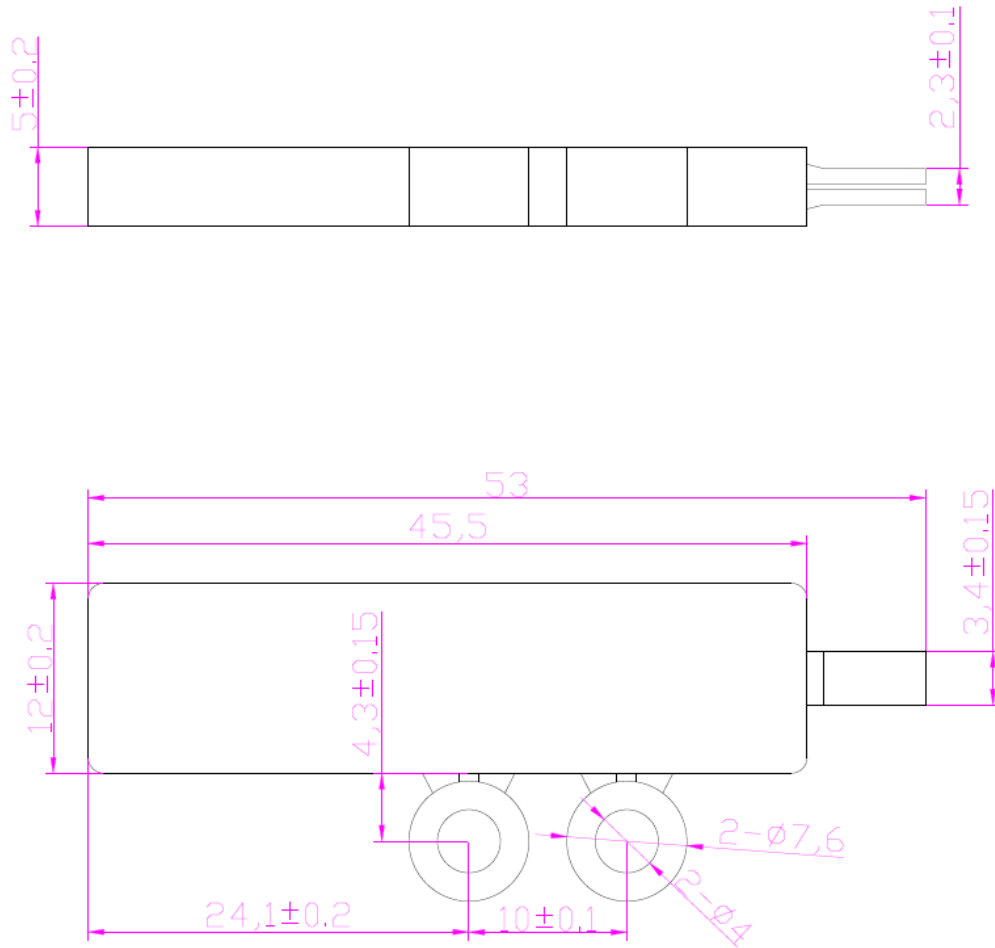
View: 
 Units: mm
 not specified tolerance: ±0.3mm



Pigtail and Connector:

Parameter	Specification	Unit
Pigtail Type (All Ports)	SMF28e with 900um Loose Tube Fiber	
Common Fiber	500±50	mm
Ribbon Fiber	500±50	mm
Fanout Fiber	500±50	Mm
Connector Type (All Ports)	LC/UPC	





Qualification:

Reliability: Compliant to Telcordia GR-1209/1221

Environmental Safety:

Compliant to ROHS6

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

Please contact your Sales Representative for ordering information.