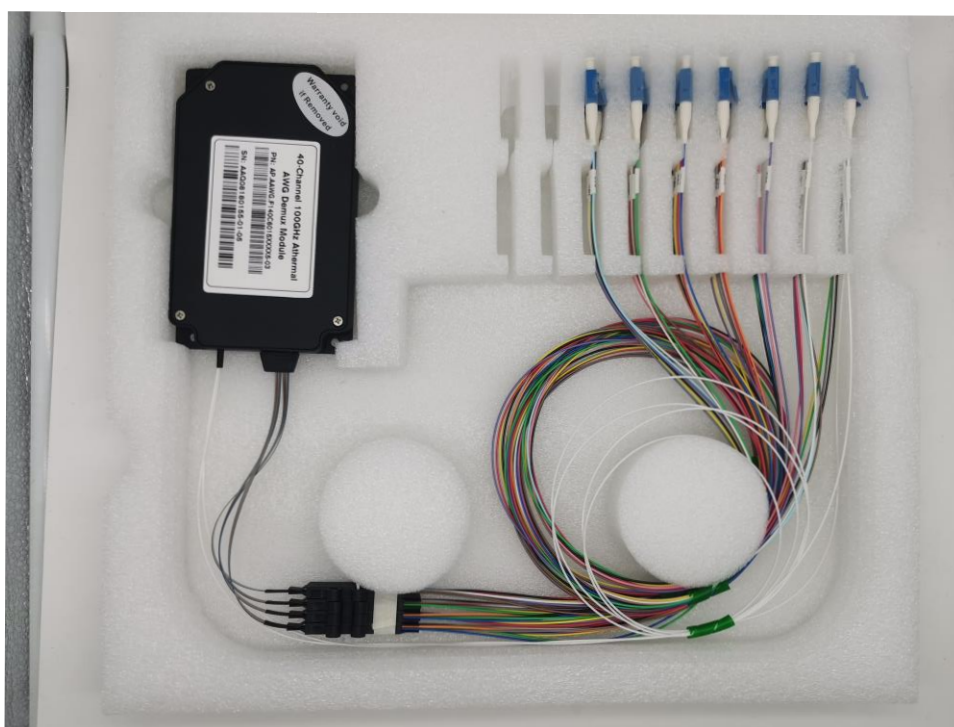


40ch 100G Flat-top Athermal-AWG(NC)



REVISION CONTROL

Revision	Date	Change Description
new	2020.12.14	Preliminary

1. Optical Specification

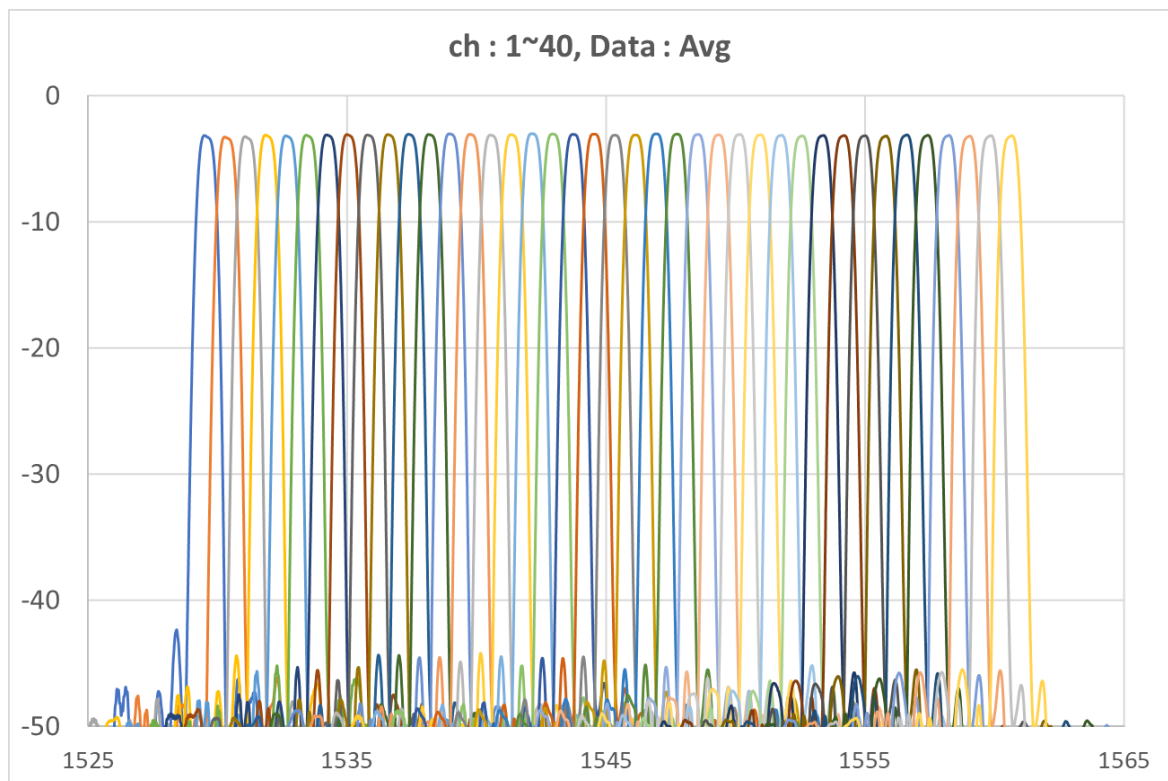
Parameter	Symbol	Description	Value			Unit
			Min.	Typ.	Max.	
Output Channel	CH		40			
Channel Spacing			100			GHz
Reference Passband	PB	@ ITU wavelength	-12.5	-	+12.5	GHz
Wavelength Accuracy	$\Delta\lambda$	Offset from ITU : -10°C ~70°C	-0.050		+0.050	nm
Insertion Loss	IL	Worst IL @ Passband	-5.5			dB
IL Uniformity	IL Unif.	Difference between max. IL and min. IL			1	dB
PDL	PDL	Max. case @ passband			0.5	dB
Ripple	Ripple	@ passband			0.5	dB
1dB Bandwidth	BW1	1dB down from the peak IL	0.4			nm
3dB Bandwidth	BW3	3dB down from the Peak IL	0.6			nm
Adjacent Crosstalk	Ax	The difference between I.L. and adjacent channel's transmission in passband.	25			dB
Non-Adjacent Crosstalk	nAx	The difference between I.L. and adjacent channel's transmission in passband.	30			dB
Total Crosstalk	Tx	Cumulative crosstalk of all other channels	22			dB
Return Loss	RL	Input & Output			-40	dB
Polarization Mode Dispersion	PMD				0.5	ps

2. Wavelength Plan

No	f (THz)	λ (nm)	No	f (THz)	λ (nm)
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1	196.000	1529.553	21	194.000	1545.322
2	195.900	1530.334	22	193.900	1546.119
3	195.800	1531.116	23	193.800	1546.917
4	195.700	1531.898	24	193.700	1547.715
5	195.600	1532.681	25	193.600	1548.515
6	195.500	1533.465	26	193.500	1549.315
7	195.400	1534.250	27	193.400	1550.116
8	195.300	1535.063	28	193.300	1550.918
9	195.200	1535.822	29	193.200	1551.721
10	195.100	1536.609	30	193.100	1552.524
11	195.000	1537.397	31	193.000	1553.329
12	194.900	1538.186	32	192.900	1557.134
13	194.800	1538.976	33	192.800	1554.940
14	194.700	1539.766	34	192.700	1555.747
15	194.600	1540.557	35	192.600	1556.555
16	194.500	1541.349	36	192.500	1557.363
17	194.400	1542.142	37	192.400	1558.173
18	194.300	1542.936	38	192.300	1558.983
19	194.200	1543.730	39	192.200	1559.794
20	194.100	1544.526	40	192.100	1560.606

3. Flat-Top Transmission Spectrum

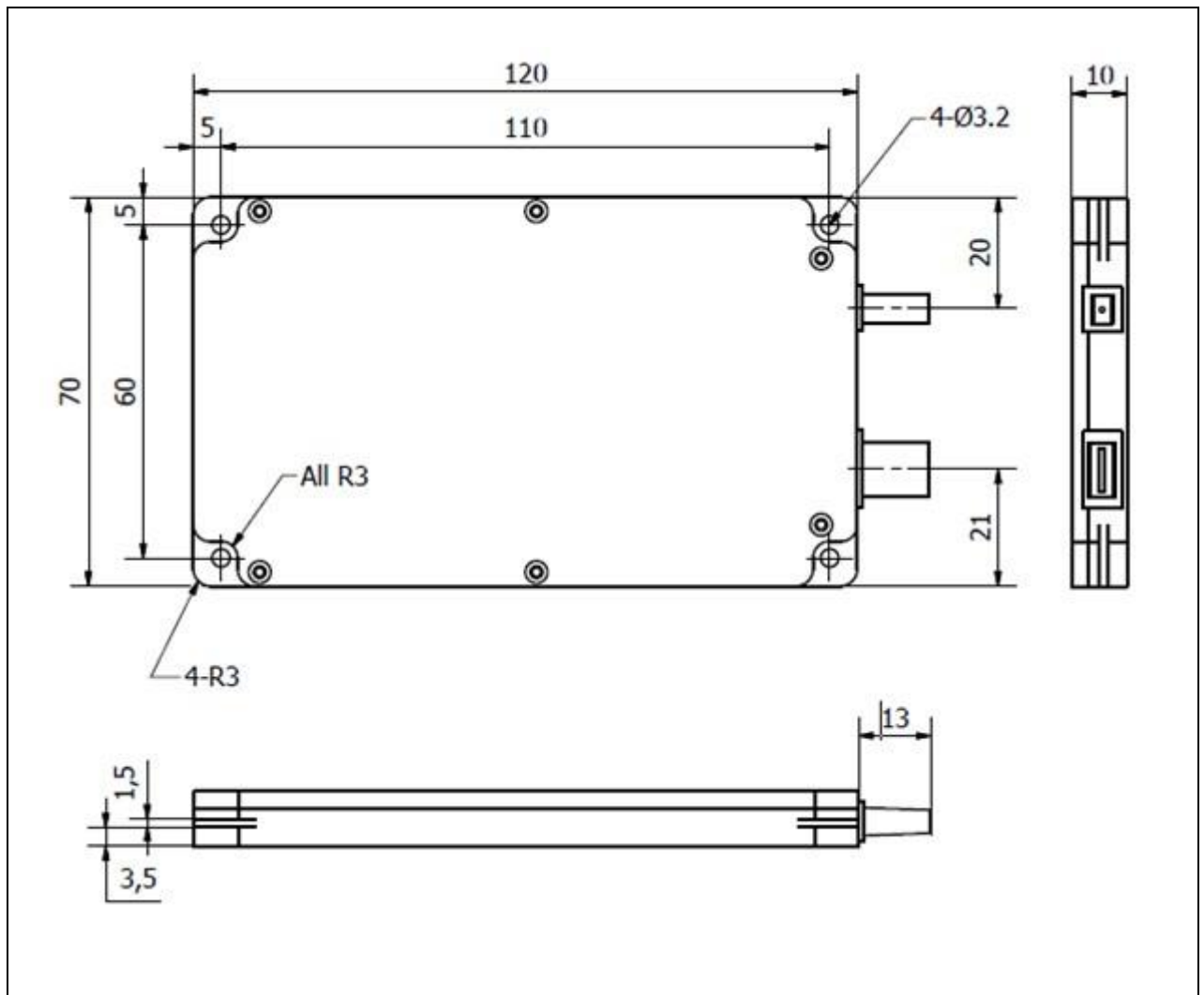


4. Temperature conditions

Parameter	Specification	Unit	Remarks
Operating Temperature Range	-5 ~ +65	°C	
Operating Humidity Range	5 ~ 85	%	
Storage Temperature Range	-40 ~ +85	°C	

5. Mechanical Drawing

The packaged size is 120mm X 70mm X 10mm for Mux/Demux.



6. Pigtail and Connector

Parameter	Specification	Unit	Note
Pigtail Type	SMF with 900um Loose Tube		
Input Common Fiber	1000±50	mm	
Ribbon Fiber	1000±50	mm	4x12 Ribbon Fiber
Fan-out Fiber	500±50	mm	
Connector Type	LC/UPC		

**Fiber length and connector type is available to change by customer's request.*