

96CH Athermal AWG Rack

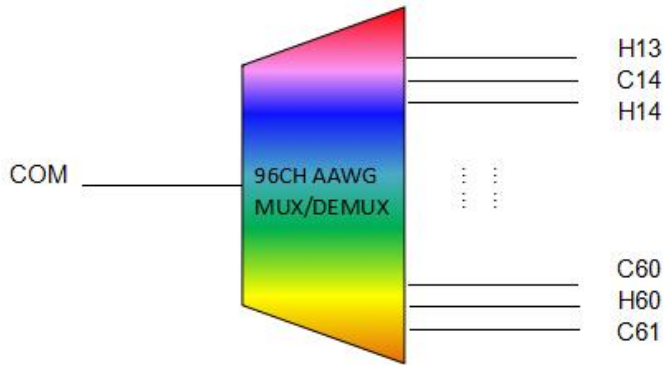
Description:

50GHz, 96 Channels, H13-C61(Flat-top),SMF-28 with 0.9mm loose tube,Length 1M,
FC/APC Connector, Size:155x95x18mm

Performance Specifications

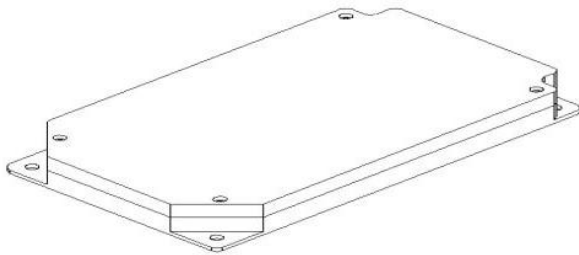
Performance	Unit	Specifications
Chip Type	/	Flat top
Operation Wavelength	nm	1525~1570
Center Wavelength	nm	ITU H13~C61 1528.773--1566.723
Channel Frequency Interval	GHz	50
Reference Pass-band	nm	±0.05
Center Wavelength Accuracy	nm	±0.04
-1dB Bandwidth	nm	≥0.18
-3dB Bandwidth	nm	≥0.28
-20dB Bandwidth	nm	≤0.7
Pass band Insertion Loss	dB	≤7
Adjacent Isolation	dB	≥25
Non-Adjacent Isolation	dB	≥30
Total Cross Talk	dB	≥20
Insertion Loss Uniformity	dB	≤1.5
Polarization-related losses	dB	≤0.5
Polarization Mode Dispersion	ps	≤1
Return Loss	dB	≥40
Passband Ripple @±0.1nm	dB	≤0.5
Chromatic Dispersion	ps/nm	-35~+35
Power Handling	dBm	23
Operating Temperature	°C	-10~+65
Storage Temperature	°C	-40~+85
Operating Humidity	%RH	0~90
Storage Humidity	%RH	0~90
Fiber Type	/	SMF-28 with 900um loose tube
Fiber Length	m	1±0.1
Connector Type	/	FC/APC
Package size	mm	155x95x18
Rohs Requirement	/	Rohs Compliant

*Notes: 1. Insertion Loss tested with connector.


Mechanical Dimensions

Unit : mm

155°95°18



Channel Plan 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.	Frequency	Wavelength	Channel No.	Frequency	Wavelength
	THz	nm		THz	nm
1	191.35	1566.72	49	193.75	1547.32
2	191.40	1566.31	50	193.80	1546.92
3	191.45	1565.90	51	193.85	1546.52
4	191.50	1565.50	52	193.90	1546.12
5	191.55	1565.09	53	193.95	1545.72
6	191.60	1564.68	54	194.00	1545.32
7	191.65	1564.27	55	194.05	1544.92
8	191.70	1563.86	56	194.10	1544.53
9	191.75	1563.45	57	194.15	1544.13
10	191.80	1563.05	58	194.20	1543.73
11	191.85	1562.64	59	194.25	1543.33
12	191.90	1562.23	60	194.30	1542.94
13	191.95	1561.83	61	194.35	1542.54
14	192.00	1561.42	62	194.40	1542.14
15	192.05	1561.01	63	194.45	1541.75
16	192.10	1560.61	64	194.50	1541.35
17	192.15	1560.20	65	194.55	1540.95
18	192.20	1559.79	66	194.60	1540.56
19	192.25	1559.39	67	194.65	1540.16
20	192.30	1558.98	68	194.70	1539.77

21	192.35	1558.58	69	194.75	1539.37
22	192.40	1558.17	70	194.80	1538.98
23	192.45	1557.77	71	194.85	1538.58
24	192.50	1557.36	72	194.90	1538.19
25	192.55	1556.96	73	194.95	1537.79
26	192.60	1556.55	74	195.00	1537.40
27	192.65	1556.15	75	195.05	1537.00
28	192.70	1555.75	76	195.10	1536.61
29	192.75	1555.34	77	195.15	1536.22
30	192.80	1554.94	78	195.20	1535.82
31	192.85	1554.54	79	195.25	1535.43
32	192.90	1554.13	80	195.30	1535.04
33	192.95	1553.73	81	195.35	1534.64
34	193.00	1553.33	82	195.40	1534.25
35	193.05	1552.93	83	195.45	1533.86
36	193.10	1552.52	84	195.50	1533.47
37	193.15	1552.12	85	195.55	1533.07
38	193.20	1551.72	86	195.60	1532.68
39	193.25	1551.32	87	195.65	1532.29
40	193.30	1550.92	88	195.70	1531.90
41	193.35	1550.52	89	195.75	1531.51
42	193.40	1550.12	90	195.80	1531.12
43	193.45	1549.72	91	195.85	1530.72
44	193.50	1549.32	92	195.90	1530.33
45	193.55	1548.91	93	195.95	1529.94
46	193.60	1548.51	94	196.00	1529.55
47	193.65	1548.11	95	196.05	1529.16
48	193.70	1547.72	96	196.10	1528.77