

Key Features

- 100GHz ITU channel spacing
- 32 or 40 Channels
- Athermal AWG
- Low insertion loss
- High channel isolation
- Fiber 2 core or 4 core
- Epoxy free on optical path

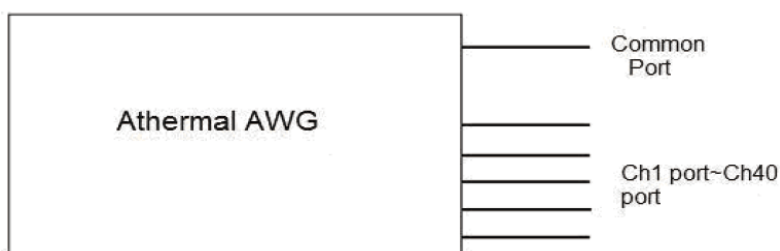
This optical multiplex or de-multiplex AWG 100GHz device is designed ideal for C-band AWG Flattop DWDM system.



Applications

- DWDM Networks
- Channel add/drop
- Wavelength routing
- Fiber optical amplifier
- CATV optical system

Structure



Technical specifications	
Items	SPEC
Channel spacing	ITU 100GHz
Channel numbers	32CH or 40CH
Reference Passband (GHz)	MAX: ±12.5
1dB Bandwidth (nm)	>0.4
Insertion Loss (including connector loss)	<5.7dB
Uniformity (dB)	<1.2
Ripple (dB)	<0.5
Adjacent Channel Isolation (dB)	>25
Non-Adjacent Channel Isolation (dB)	>30
Total Channel Isolator (dB)	>22
PDL (dB)	<0.5

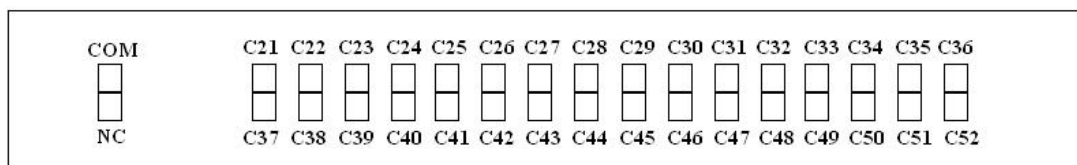
Return Loss (dB)	>45
CD (ps/nm)	-20~+20
PMD (ps)	<0.5
Operating Temperature (°C)	-5~65
Storage Temperature (°C)	-40~85
Fiber Type	SMF-28e
Packaging Dimension(mm)	19inch 1U Chassis, 431.5*250*44mm

Channel Frequencies and Wavelengths (ITU Grid)

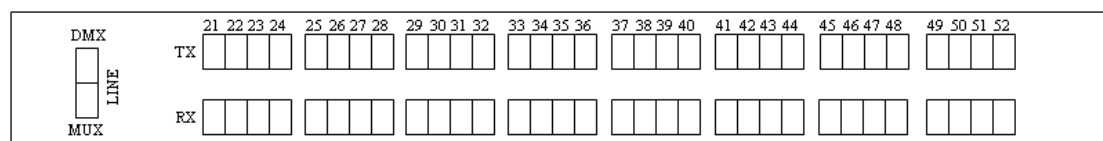
Channel	Frequency (THz)	Wavelength (nm)	Channel	Frequency (THz)	Wavelength (nm)
1	196.00	1529.553	21	194.00	1545.322
2	195.90	1530.334	22	193.90	1546.119
3	195.80	1531.116	23	193.80	1546.917
4	195.70	1531.898	24	193.70	1547.715
5	195.60	1532.681	25	193.60	1548.515
6	195.50	1533.465	26	193.50	1549.315
7	195.40	1534.250	27	193.40	1550.116
8	195.30	1535.036	28	193.30	1550.918
9	195.20	1535.822	29	193.20	1551.721
10	195.10	1536.609	30	193.10	1552.524
11	195.00	1537.397	31	193.00	1553.329
12	194.90	1538.186	32	192.90	1554.134
13	194.80	1538.976	33	192.80	1554.940
14	194.70	1539.766	34	192.70	1555.747
15	194.60	1540.557	35	192.60	1556.555
16	194.50	1541.349	36	192.50	1557.363
17	194.40	1542.142	37	192.40	1558.173
18	194.30	1542.936	38	192.30	1558.983
19	194.20	1543.730	39	192.20	1559.794
20	194.10	1544.526	40	192.10	1560.606

Front Panel Layout

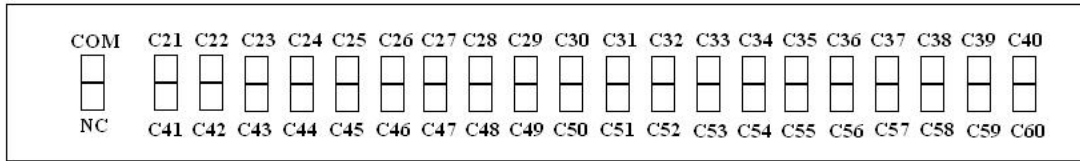
1x32 MUX or DEMUX (Using duplex LC adaptors)



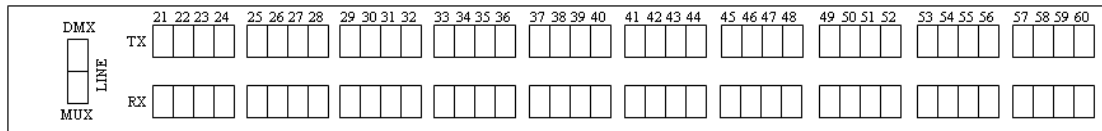
1x32 MUX + DEMUX (Using Quadruple LC adaptors)



1x40 MUX or DEMUX (Using duplex LC adaptors)



1x40 MUX + DEMUX (Using Quadruple LC adaptors)



Part numbers

<i>P/N</i>	<i>Descriptions</i>
UDW-M32	MUX 32CH
UDW-D32	DEMUX 32CH
UDW-MD32	MUX + DEMUX 32CH
UDW-M40	MUX 40CH
UDW-D40	DEMUX 40CH
UDW-MD40	MUX + DEMUX 40CH