

60CH Even 190.7-196.6THz DWDM Mux Demux + Monitor Port

DATA CENTER & CLOUD COMPUTING INFRASTRUCTURE SOLUTIONS



Overview

This Even Channels DWDM Mux Demux has 100GHz channel spacing and performs 60 channel multiplexing or demultiplexing at the ITU wavelengths in Super C-band, greatly expanding the effective working spectrum compared with the traditional C band and extended C band. It offers a combination of low optical insertion loss and high channel isolation along with long term reliability and low cost per channel.

Highlights

- Multiplexing of up to 60 Channels on Fiber Pair to Maximize the Usefulness of Existing Fiber
- Low Insertion Loss: Typical 6.0dB, Max 6.7dB
- Wide Pass Band Flat-top Profile
- Super C-band Can Improve the System Transmission Capacity and Distance
- Passive Transparent Any Rate, Any Service Multiplexing
- Compliant with All Optical Networking Products (ITU Grid)
- Monitor Port Taps off 1% of the Signal to Monitor the Channel Power Levels

Front View and Port Description

LINE Port/Special Service	Channel Port					
LINE TX	CH01 TX	CH03 TX	...	CH57 TX	CH59 TX	
LINE RX	CH01 RX	CH03 RX	...	CH57 RX	CH59 RX	
Mon TX	CH02 TX	CH04 TX	...	CH58 TX	CH60 TX	
Mon RX	CH02 RX	CH04 RX	...	CH58 RX	CH60 RX	



Technical Data

Parameter	Value
ITU Channel	60 Odd Channels 190.75-196.65THz
Channel Spacing	100GHz
Channel Passband Insertion	±12.5GHz
Insertion Loss	≤6.7dB, 6.0dB Typical
Insertion Loss @ 1% Mon TX	≤27dB
Insertion Loss @ 1% Mon RX	≤22dB
Insertion Loss Uniformity	1.5dB
Wavelength Accuracy	±50pm
Adjacent Channel Isolation	≥25dB
Non-adjacent Channel Isolation	≥30dB
Ripple	≤0.5dB
Technology	AAWG (Flat-top)

Parameter	Value
Polarization Dependent Loss	0.5dB
Polarization Mode Dispersion	1.0ps
Operating Temperature	-5 to 65 ℃ (23 to 149°F)
Storage Temperature	-40 to 85 ℃ (-40 to 185°F)

Notes:

1. Specified with connectors and adapters.

Channel Plan

Part Number	First Channel Frequency (THz)	Last Channel Frequency (THz)
Odd	190.75	196.65
Even	190.7	196.6

Channel	Odd		Even	
	f(THz)	λ(nm)	f(THz)	λ(nm)
1	196.65	1524.50	196.6	1524.89
2	196.55	1525.27	196.5	1525.66
3	196.45	1526.05	196.4	1526.44
4	196.35	1526.83	196.3	1527.22
5	196.25	1527.60	196.2	1527.99
6	196.15	1528.38	196.1	1528.77
7	196.05	1529.16	196.0	1529.55
8	195.95	1529.94	195.9	1530.33
9	195.85	1530.72	195.8	1531.12
10	195.75	1531.51	195.7	1531.90
11	195.65	1532.29	195.6	1532.68
12	195.55	1533.07	195.5	1533.47
13	195.45	1533.86	195.4	1534.25
14	195.35	1534.64	195.3	1535.04
15	195.25	1535.43	195.2	1535.82
16	195.15	1536.22	195.1	1536.61
17	195.05	1537.00	195.0	1537.40
18	194.95	1537.79	194.9	1538.19

Channel	ODD		Even	
	f(THz)	λ(nm)	f(THz)	λ(nm)
19	194.85	1538.58	194.8	1538.98
20	194.75	1539.37	194.7	1539.77
21	194.65	1540.16	194.6	1540.56
22	194.55	1540.95	194.5	1541.35
23	194.45	1541.75	194.4	1542.14
24	194.35	1542.54	194.3	1542.94
25	194.25	1543.33	194.2	1543.73
26	194.15	1544.13	194.1	1544.53
27	194.05	1544.92	194.0	1545.32
28	193.95	1545.72	193.9	1546.12
29	193.85	1546.52	193.8	1546.92
30	193.75	1547.32	193.7	1547.72
31	193.65	1548.11	193.6	1548.51
32	193.55	1548.91	193.5	1549.32
33	193.45	1549.72	193.4	1550.12
34	193.35	1550.52	193.3	1550.92
35	193.25	1551.32	193.2	1551.72
36	193.15	1552.12	193.1	1552.52
37	193.05	1552.93	193.0	1553.33
38	192.95	1553.73	192.9	1554.13
39	192.85	1554.54	192.8	1554.94
40	192.75	1555.34	192.7	1555.75
41	192.65	1556.15	192.6	1556.55
42	192.55	1556.96	192.5	1557.36
43	192.45	1557.77	192.4	1558.17
44	192.35	1558.58	192.3	1558.98
45	192.25	1559.39	192.2	1559.79
46	192.15	1560.20	192.1	1560.61
47	192.05	1561.01	192.0	1561.42
48	191.95	1561.83	191.9	1562.23
49	191.85	1562.64	191.8	1563.05
50	191.75	1563.45	191.7	1563.86
51	191.65	1564.27	191.6	1564.68
52	191.55	1565.09	191.5	1565.50
53	191.45	1565.90	191.4	1566.31
54	191.35	1566.72	191.3	1567.13
55	191.25	1567.54	191.2	1567.95
56	191.15	1568.36	191.1	1568.77
57	191.05	1569.18	191.0	1569.59
58	190.95	1570.01	190.9	1570.42
59	190.85	1570.83	190.8	1571.24
60	190.75	1571.65	190.7	1572.06