64CH 191.3625-196.0875THz DWDM Mux Demux + Monitor Port

DATA CENTER & CLOUD COMPUTING INFRASTRUCTURE SOLUTIONS

Overview

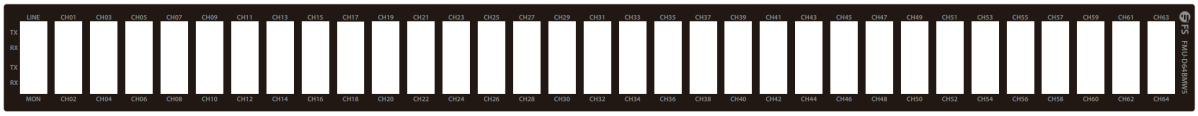
This DWDM Mux Demux has 75GHz channel spacing and performs 64 channel multiplexing or demultiplexing at the ITU wavelengths in Super C-band, greatly expanding the effective working spectrum compared with the traditional C band and extended C band. It offers a combination of low optical insertion loss and high channel isolation along with long term reliability and low cost per channel.

Highlights

- Multiplexing of up to 64 Channels on Fiber Pair to Maximize the Usefulness of Existing Fiber
- Low Insertion Loss: Typical 5.8dB, Max 6.5dB
- 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	C03 TX	…	CH61 TX	CH63 TX
LINE RX	CH01 RX	C03 RX	…	CH61 RX	CH63 RX
Mon TX	CH02 TX	C04 TX	…	CH62 TX	CH64 TX
Mon RX	CH02 RX	C04 RX	…	CH62 RX	CH64 RX



Technical Data

Parameter	Value
ITU Channel	64 Channels 191.3625-196.0875THz
Channel Spacing	75GHz
Channel Passband Insertion	±31.5GHz
Insertion Loss	≤6.5dB, 5.8dB Typical
Insertion Loss @ 1% Mon TX	≤27dB
Insertion Loss @ 1% Mon RX	≤22dB
Insertion Loss Uniformity	1.5dB
Wavelength Accuracy	±50pm
Adjacent Channel Isolation	≥8dB
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

Channel	Channel Frequency (THz)	Channel Wavelength (nm)
1	191.3625	1566.62
2	191.4375	1566.01
3	191.5125	1565.39
4	191.5875	1564.78
5	191.6625	1564.17
6	191.7375	1563.56
7	191.8125	1562.95
8	191.8875	1562.33
9	191.9625	1561.72
10	192.0375	1561.11
11	192.1125	1560.5
12	192.1875	1559.9
13	192.2625	1559.29
14	192.3375	1558.68
15	192.4125	1558.07
16	192.4875	1557.46
17	192.5625	1556.86
18	192.6375	1556.25
19	192.7125	1555.65
20	192.7875	1555.04
21	192.8625	1554.44
22	192.9375	1553.83
23	193.0125	1553.23
24	193.0875	1552.62
25	193.1625	1552.02
26	193.2375	1551.42

Channel	Channel Frequency (THz)	Channel Wavelength (nm)
27	193.3125	1550.82
28	193.3875	1550.22
29	193.4625	1549.62
30	193.5375	1549.01
31	193.6125	1548.41
32	193.6875	1547.82
33	193.7625	1547.22
34	193.8375	1546.62
35	193.9125	1546.02
36	193.9875	1545.42
37	194.0625	1544.82
38	194.1375	1544.23
39	194.2125	1543.63
40	194.2875	1543.04
41	194.3625	1542.44
42	194.4375	1541.84
43	194.5125	1541.25
44	194.5875	1540.66
45	194.6625	1540.06
46	194.7375	1539.47
47	194.8125	1538.88
48	194.8875	1538.28
49	194.9625	1537.69
50	195.0375	1537.1
51	195.1125	1536.51
52	195.1875	1535.92
53	195.2625	1535.33
54	195.3375	1534.74
55	195.4125	1534.15
56	195.4875	1533.56
57	195.5625	1532.98
58	195.6375	1532.39
59	195.7125	1531.8
60	195.7875	1531.21
61	195.8625	1530.63
62	195.9375	1530.04
63	196.0125	1529.46
64	196.0875	1528.87