

100GHz Dense Wavelength Division Multiplexer (DWDM)

Features

High Demux Channel Isolation
Low Polarization Dependent Loss
Flat and Wide Passband
High Reliability

Applications

Long Haul DWDM System
Metro DWDM System
Access/Enterprise Network
Test Instrument

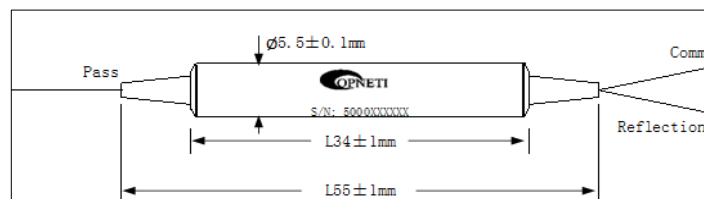


Specifications

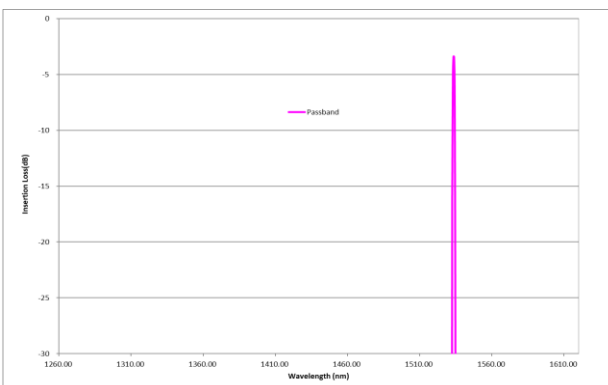
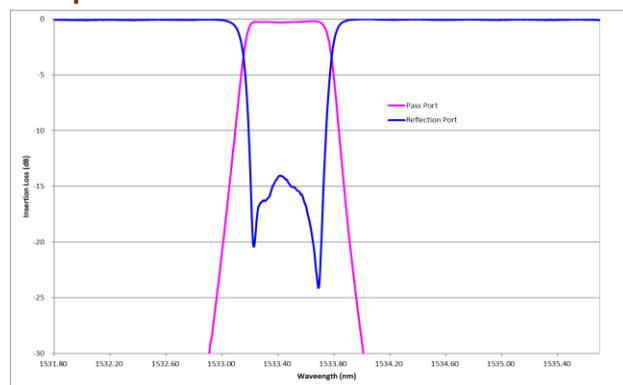
Parameters	Unit	Values
Channel Wavelength CWL	nm	ITU Grid
Center Wavelength Accuracy	nm	± 0.05
Channel Spacing	GHz	100
Channel Passband (@-0.5dB Bandwidth)	nm	≥ 0.22
Insertion Loss	Add / Drop CH	≤ 0.9
	Express CH	≤ 0.4
Channel Ripple	dB	≤ 0.4
Isolation	Adjacent CH	≥ 30
	Non-adjacent CH	≥ 40
Express Channel Isolation	dB	≥ 10
Insertion Loss Temperature Sensitivity	dB/°C	≤ 0.003
Wavelength Temperature Shifting	nm/°C	≤ 0.002
PDL	dB	≤ 0.10
Directivity	dB	≥ 50
Return Loss	dB	≥ 45
Fiber Type		SMF-28e
Power Handling	mW	≤ 300
Operating Temperature	°C	0 ~ +70
Storage Temperature	°C	-40 ~ +85
Dimensions	mm	$\Phi 5.5 \times 34$

* Insertion Loss +0.2dB, Return Loss -5dB if add connector.

Package Dimensions



Typical Spectrum



Ordering Information

DWDM- ①-②-③③-④④④-⑤-⑥-⑦⑦

①	Channel Space	1=100GHz;
②	Channel Type	1=1Ch;
③	ITU Grid	21=21ch; 21*=21*ch; 22=22ch; 22*=22*ch; ...; 72*=72*ch;
④	Pigtail Type	250=250μm Bare Fiber; 900=900μm loose tube; 3000=3mm Cable;
⑤	Fiber Type	1=SMF-28e;
⑥	Fiber Length	1=1m;
⑦	Connector	NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others;

ITU-T Standard Wavelength Reference Table

DWDM

Channel	f(GHz)	λ (nm)	Channel	f(GHz)	λ (nm)	Channel	f(GHz)	λ (nm)	Channel	f(GHz)	λ (nm)
L48	184800	1622.25	L76	187650	1597.62	C05	190500	1573.71	C33	193350	1550.52
L48	184850	1621.81	L77	187700	1597.19	C05	190550	1573.30	C34	193400	1550.12
L49	184900	1621.38	L77	187750	1596.76	C06	190600	1572.89	C34	193450	1549.72
L49	184950	1620.94	L78	187800	1596.34	C06	190650	1572.48	C35	193500	1549.32
L50	185000	1620.50	L78	187850	1595.91	C07	190700	1572.06	C35	193550	1548.91
L50	185050	1620.06	L79	187900	1595.49	C07	190750	1571.65	C36	193600	1548.51
L51	185100	1619.62	L79	187950	1595.06	C08	190800	1571.24	C36	193650	1548.11
L51	185150	1619.19	L80	188000	1594.64	C08	190850	1570.83	C37	193700	1547.72
L52	185200	1618.75	L80	188050	1594.22	C09	190900	1570.42	C37	193750	1547.32
L52	185250	1618.31	L81	188100	1593.79	C09	190950	1570.01	C38	193800	1546.92
L53	185300	1617.88	L81	188150	1593.37	C10	191000	1569.59	C38	193850	1546.52
L53	185350	1617.44	L82	188200	1592.95	C10	191050	1569.18	C39	193900	1546.12
L54	185400	1617.00	L82	188250	1592.52	C11	191100	1568.77	C39	193950	1545.72
L54	185450	1616.57	L83	188300	1592.10	C11	191150	1568.36	C40	194000	1545.32
L55	185500	1616.13	L83	188350	1591.68	C12	191200	1567.95	C40	194050	1544.92
L55	185550	1615.70	L84	188400	1591.26	C12	191250	1567.54	C41	194100	1544.53
L56	185600	1615.26	L84	188450	1590.83	C13	191300	1567.13	C41	194150	1544.13
L56	185650	1614.83	L85	188500	1590.41	C13	191350	1566.72	C42	194200	1543.73
L57	185700	1614.39	L85	188550	1589.99	C14	191400	1566.31	C42	194250	1543.33
L57	185750	1613.96	L86	188600	1589.57	C14	191450	1565.90	C43	194300	1542.94
L58	185800	1613.52	L86	188650	1589.15	C15	191500	1565.50	C43	194350	1542.54
L58	185850	1613.09	L87	188700	1588.73	C15	191550	1565.09	C44	194400	1542.14
L59	185900	1612.65	L87	188750	1588.30	C16	191600	1564.68	C44	194450	1541.75
L59	185950	1612.22	L88	188800	1587.88	C16	191650	1564.27	C45	194500	1541.35
L60	186000	1611.79	L88	188850	1587.46	C17	191700	1563.86	C45	194550	1540.95
L60	186050	1611.35	L89	188900	1587.04	C17	191750	1563.45	C46	194600	1540.56
L61	186100	1610.92	L89	188950	1586.62	C18	191800	1563.05	C46	194650	1540.16
L61	186150	1610.49	L90	189000	1586.20	C18	191850	1562.64	C47	194700	1539.77
L62	186200	1610.06	L90	189050	1585.78	C19	191900	1562.23	C47	194750	1539.37
L62	186250	1609.62	L91	189100	1585.36	C19	191950	1561.83	C48	194800	1538.98
L63	186300	1609.19	L91	189150	1584.95	C20	192000	1561.42	C48	194850	1538.58
L63	186350	1608.76	L92	189200	1584.53	C20	192050	1561.01	C49	194900	1538.19
L64	186400	1608.33	L92	189250	1584.11	C21	192100	1560.61	C49	194950	1537.79
L64	186450	1607.90	L93	189300	1583.69	C21	192150	1560.20	C50	195000	1537.40
L65	186500	1607.47	L93	189350	1583.27	C22	192200	1559.79	C50	195050	1537.00
L65	186550	1607.04	L94	189400	1582.85	C22	192250	1559.39	C51	195100	1536.61
L66	186600	1606.60	L94	189450	1582.42	C23	192300	1558.98	C51	195150	1536.22
L66	186650	1606.17	L95	189500	1582.02	C23	192350	1558.58	C52	195200	1535.82
L67	186700	1605.74	L95	189550	1581.60	C24	192400	1558.17	C52	195250	1535.43
L67	186750	1605.31	L96	189600	1581.18	C24	192450	1557.77	C53	195300	1535.04
L68	186800	1604.88	L96	189650	1580.77	C25	192500	1557.36	C53	195350	1534.64
L68	186850	1604.46	L97	189700	1580.35	C25	192550	1556.96	C54	195400	1534.25
L69	186900	1604.03	L97	189750	1579.93	C26	192600	1556.55	C54	195450	1533.86
L69	186950	1603.60	L98	189800	1579.52	C26	192650	1556.15	C55	195500	1533.47
L70	187000	1603.17	L98	189850	1579.10	C27	192700	1555.75	C55	195550	1533.07
L70	187050	1602.74	L99	189900	1578.69	C27	192750	1555.34	C56	195600	1532.68
L71	187100	1602.31	L99	189950	1578.27	C28	192800	1554.94	C56	195650	1532.29
L71	187150	1601.88	L00	190000	1577.86	C28	192850	1554.54	C57	195700	1531.90
L72	187200	1601.46	L00	190050	1577.44	C29	192900	1554.13	C57	195750	1531.51
L72	187250	1601.03	C01	190100	1577.03	C29	192950	1553.73	C58	195800	1531.12
L73	187300	1600.60	C01	190150	1576.61	C30	193000	1553.33	C58	195850	1530.72
L73	187350	1600.17	C02	190200	1576.20	C30	193050	1552.93	C59	195900	1530.33
L74	187400	1599.75	C02	190250	1575.78	C31	193100	1552.52	C59	195950	1529.94
L74	187450	1599.32	C03	190300	1575.37	C31	193150	1552.12	C60	196000	1529.55
L75	187500	1598.89	C03	190350	1574.95	C32	193200	1551.72	C60	196050	1529.16
L75	187550	1598.47	C04	190400	1574.54	C32	193250	1551.32	C61	196100	1528.77
L76	187600	1598.04	C04	190450	1574.13	C33	193300	1550.92	C61	196150	1528.38

CWDM

Wavelength(nm)	Wavelength(nm)
1271	1451
1291	1471
1311	1491
1331	1511
1351	1531
1371	1551
1391	1571
1411	1591
1431	1611