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

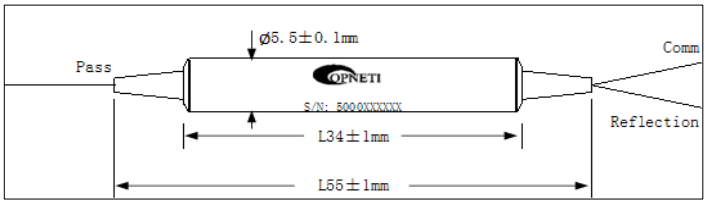
RoHS Reach

Specifications

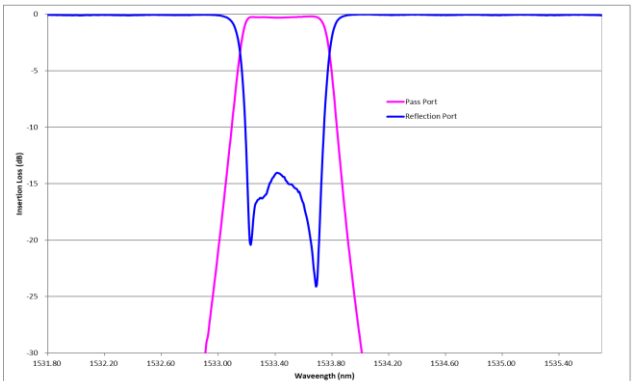
Parameters		Unit	Values
Channel Wavelength CWL		nm	ITU Grid
Center Wavelength Accuracy		nm	±0.05
Channel Spacing		GHz	100
Channel Passband (@-0.5dB Bandwidth)		nm	≥0.22
Insertion Loss	Add / Drop CH	dB	≤0.9
	Express CH	dB	≤0.4
Channel Ripple		dB	≤0.4
Isolation	Adjacent CH	dB	≥30
	Non-adjacent CH	dB	≥40
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		℃	0 ~ +70
Storage Temperature		℃	-40 ~ +85
Dimensions		mm	Φ5.5x34

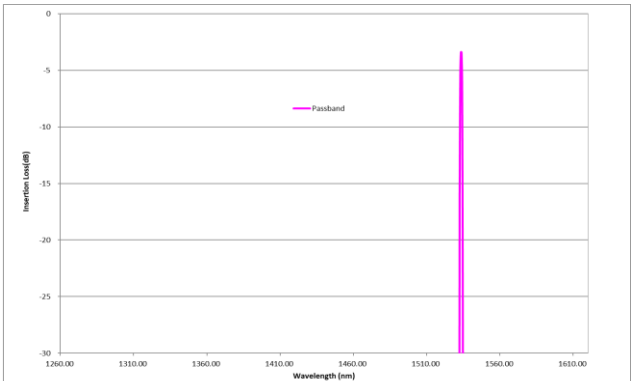
* Insertion Loss +0.2dB, Return Loss -5dB if add connector.

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	L+76	187650	1597.62	C05	190500	1573.71	C+33	193350	1550.52
L+48	184850	1621.81	L77	187700	1597.19	C+05	190550	1573.30	C34	193400	1550.12
L49	184900	1621.38	L+77	187750	1596.76	C06	190600	1572.89	C+34	193450	1549.72
L+49	184950	1620.94	L78	187800	1596.34	C+06	190650	1572.48	C35	193500	1549.32
L50	185000	1620.50	L+78	187850	1595.91	C07	190700	1572.06	C+35	193550	1548.91
L+50	185050	1620.06	L79	187900	1595.49	C+07	190750	1571.65	C36	193600	1548.51
L51	185100	1619.62	L+79	187950	1595.06	C08	190800	1571.24	C+36	193650	1548.11
L+51	185150	1619.19	L80	188000	1594.64	C+08	190850	1570.83	C37	193700	1547.72
L52	185200	1618.75	L+80	188050	1594.22	C09	190900	1570.42	C+37	193750	1547.32
L+52	185250	1618.31	L81	188100	1593.79	C+09	190950	1570.01	C38	193800	1546.92
L53	185300	1617.88	L+81	188150	1593.37	C10	191000	1569.59	C+38	193850	1546.52
L+53	185350	1617.44	L82	188200	1592.95	C+10	191050	1569.18	C39	193900	1546.12
L54	185400	1617.00	L+82	188250	1592.52	C11	191100	1568.77	C+39	193950	1545.72
L+54	185450	1616.57	L83	188300	1592.10	C+11	191150	1568.36	C40	194000	1545.32
L55	185500	1616.13	L+83	188350	1591.68	C12	191200	1567.95	C+40	194050	1544.92
L+55	185550	1615.70	L84	188400	1591.26	C+12	191250	1567.54	C41	194100	1544.53
L56	185600	1615.26	L+84	188450	1590.83	C13	191300	1567.13	C+41	194150	1544.13
L+56	185650	1614.83	L85	188500	1590.41	C+13	191350	1566.72	C42	194200	1543.73
L57	185700	1614.39	L+85	188550	1589.99	C14	191400	1566.31	C+42	194250	1543.33
L+57	185750	1613.96	L86	188600	1589.57	C+14	191450	1565.90	C43	194300	1542.94
L58	185800	1613.52	L+86	188650	1589.15	C15	191500	1565.50	C+43	194350	1542.54
L+58	185850	1613.09	L87	188700	1588.73	C+15	191550	1565.09	C44	194400	1542.14
L59	185900	1612.65	L+87	188750	1588.30	C16	191600	1564.68	C+44	194450	1541.75
L+59	185950	1612.22	L88	188800	1587.88	C+16	191650	1564.27	C45	194500	1541.35
L60	186000	1611.79	L+88	188850	1587.46	C17	191700	1563.86	C+45	194550	1540.95
L+60	186050	1611.35	L89	188900	1587.04	C+17	191750	1563.45	C46	194600	1540.56
L61	186100	1610.92	L+89	188950	1586.62	C18	191800	1563.05	C+46	194650	1540.16
L+61	186150	1610.49	L90	189000	1586.20	C+18	191850	1562.64	C47	194700	1539.77
L62	186200	1610.06	L+90	189050	1585.78	C19	191900	1562.23	C+47	194750	1539.37
L+62	186250	1609.62	L91	189100	1585.36	C+19	191950	1561.83	C48	194800	1538.98
L63	186300	1609.19	L+91	189150	1584.95	C20	192000	1561.42	C+48	194850	1538.58
L+63	186350	1608.76	L92	189200	1584.53	C+20	192050	1561.01	C49	194900	1538.19
L64	186400	1608.33	L+92	189250	1584.11	C21	192100	1560.61	C+49	194950	1537.79
L+64	186450	1607.90	L93	189300	1583.69	C+21	192150	1560.20	C50	195000	1537.40
L65	186500	1607.47	L+93	189350	1583.27	C22	192200	1559.79	C+50	195050	1537.00
L+65	186550	1607.04	L94	189400	1582.85	C+22	192250	1559.39	C51	195100	1536.61
L66	186600	1606.60	L+94	189450	1582.44	C23	192300	1558.98	C+51	195150	1536.22
L+66	186650	1606.17	L95	189500	1582.02	C+23	192350	1558.58	C52	195200	1535.82
L67	186700	1605.74	L+95	189550	1581.60	C24	192400	1558.17	C+52	195250	1535.43
L+67	186750	1605.31	L96	189600	1581.18	C+24	192450	1557.77	C53	195300	1535.04
L68	186800	1604.88	L+96	189650	1580.77	C25	192500	1557.36	C+53	195350	1534.64
L+68	186850	1604.46	L97	189700	1580.35	C+25	192550	1556.96	C54	195400	1534.25
L69	186900	1604.03	L+97	189750	1579.93	C26	192600	1556.55	C+54	195450	1533.86
L+69	186950	1603.60	L98	189800	1579.52	C+26	192650	1556.15	C55	195500	1533.47
L70	187000	1603.17	L+98	189850	1579.10	C27	192700	1555.75	C+55	195550	1533.07
L+70	187050	1602.74	L99	189900	1578.69	C+27	192750	1555.34	C56	195600	1532.68
L71	187100	1602.31	L+99	189950	1578.27	C28	192800	1554.94	C+56	195650	1532.29
L+71	187150	1601.88	L00	190000	1577.86	C+28	192850	1554.54	C57	195700	1531.90
L72	187200	1601.46	L+00	190050	1577.44	C29	192900	1554.13	C+57	195750	1531.51
L+72	187250	1601.03	C01	190100	1577.03	C+29	192950	1553.73	C58	195800	1531.12
L73	187300	1600.60	C+01	190150	1576.61	C30	193000	1553.33	C+58	195850	1530.72
L+73	187350	1600.17	C02	190200	1576.20	C+30	193050	1552.93	C59	195900	1530.33
L74	187400	1599.75	C+02	190250	1575.78	C31	193100	1552.52	C+59	195950	1529.94
L+74	187450	1599.32	C03	190300	1575.37	C+31	193150	1552.12	C60	196000	1529.55
L75	187500	1598.89	C+03	190350	1574.95	C32	193200	1551.72	C+60	196050	1529.16
L+75	187550	1598.47	C04	190400	1574.54	C+32	193250	1551.32	C61	196100	1528.77
L76	187600	1598.04	C+04	190450	1574.13	C33	193300	1550.92	C+61	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